September 1971 • Part 2

Anesthesiology

The Journal of

The American Society of Anesthesiologists, Inc.

Ten-Year Cumulative Index

Volumes 21–31

1960–1969

KUM

Anesthesiology

The Journal of
The American Society of
Anesthesiologists, Inc.

Editor-in-Chief
ARTHUR S. KEATS, Houston, Texas

Editors
ELLIS N. COHEN · HAMILTON S. DAVIS
NICHOLAS M. GREENE · S. G. HERSHEY
C. PHILIP LARSON, JR. · MYRON LAVER
S. H. NGAI · HARRY WOLLMAN

Book Review Editor
MEREL H. HARMEL, Durham, North Carolina

TEN-YEAR CUMULATIVE INDEX
VOLUMES 21–31 · 1960–1969

Published by
J. B. LIPPINCOTT COMPANY
Philadelphia Toronto

Copyright © 1971, by The American Society of Anesthesiologists, Inc.

XUM

INDEX OF AUTHORS AND SUBJECTS • VOLUMES 21–31, 1960–1969

The volume numbers appear in **bold face,** followed by the page number in each volume.

Author entries for original articles and Current Comments include the title of the article and the co-author under the first author; reference is made from the joint authors.

Subject entries for all material in the JOURNAL volumes (except Literature Briefs and Book Reviews) appear in this index. The name of the authors of original articles, in parentheses, follows the subject entry. Entries from the JOURNAL departments are followed by the department in which the subject matter appears.

Index of Volumes:

VOLUME	YEAR	VOLUME	YEAR	VOLUME	YEAR
21	1960	**24**	1963	**27**	1966
22	1961	**25**	1964	**28**	1967
23	1962	**26**	1965	**29**	1968

VOLUME	YEAR
30	1969 (January–June)
31	1969 (July–December)

A

AB-132: see Ethyl-N-(bis(2,2-dimethylethylenimido) phosphoro) Carbamate

ABBOUD, F. M., see CAFFREY, J. A., jt. auth.

Abdomen
  reflex inhibition in rat, hyperventilation and (Downes), **24**: 615

Abduction Bar and Clamp ("DePuy") adaptation of (current comment), **24**: 117

ABEL, R. R., Postoperative (pressure) alopecia (case report) (current comment), **25**: 869

ABELSON, L., A device for emergency cricothyrotomy (current comment), **24**: 738

ABRAHAMIAN, H. A., ALLISON, T., GOFF, W. R., and ROSNER, B. S., Effect of thiopental on human cerebral evoked responses, **24**: 650

ABRAMS, A. L., see GRABLE, E., jt. auth.

Abstracts, work in progress, **29**: 170, 850, **30**: 335

Academy of Anesthesiology (report of meeting) (Little), **29**: 393

Accidents
  prevention of breathing anoxic gas mixtures during anesthesia (Epstein & others), **23**: 1
  safety (editorial), **23**: 124

Acetate
  effect on contractility of halothane-depressed atria (Ko & Paradise), **31**: 532

Acetazolamide
  effects on cerebral blood flow and P_{O_2} (Cotev & others), **29**: 471
  ventilation and, effect on cerebral blood flow in chronic respiratory acidosis (abstract), **29**: 203

Acetylcholine
  ACh test in evaluating patient's ability to inactivate succinylcholine or other esters (clinical workshop), **28**: 1085
  regional levels in rat brain, effect of halothane anesthesia on (Schmidt), **27**: 788

Acetylcysteine
  stability of solutions to oxidation during nebulization (Hamlow & Peck), **28**: 934

ACHESON, F., The transient effect on muscle flow of thiopental sodium in the cat, **24**: 658
——, see MOTOYAMA, E. K., jt auth.

Acid pulmonary aspiration (Mendelson's) syndrome, steroid therapy for (Taylor & Pryse-Davies), **29**: 17

Acid-Base Balance: see also under Acidosis
  after blood transfusion (correspondence), **28**: 1110
  blood parameters, effects of apnea on (current comment), **24**: 118
  carbon dioxide and respiration in (review) (Lambertsen), **21**: 642
  controlled with cardiopulmonary bypass and hypothermia (Carson & Morris), **23**: 618
    (current comment), **24**: 400
    (correspondence), **28**: 787
  debate (correspondence), **27**: 202, 203, 333
  derangements in children with status asthmaticus (abstract), **26**: 245
  disturbances during major surgery (Schweizer & Howland), **24**: 158
  effect of alkalosis on action of neuromuscular blocking agents (Katz & others), **24**: 18
  effect on epinephrine-induced arrhythmias (Ueda & others), **23**: 342
  effect of phenylephrine on, in dogs with acute hemorrhagic hypotension on constant volume ventilation (abstract), **21**: 107
  effects of THAM used during anesthesia (abstract), **23**: 158
  equilibrium during cyclopropane anesthesia and operation in infants (Reynolds), **27**: 127
  further light on debate (special report) (Nahas), **27**: 6
  great trans-Atlantic debate (editorial) (Bunker), **26**: 591

in dogs with acute hemorrhagic hypotension, effect of phenylephrine (Loehning & others), **21**: 363
in infants during halothane anesthesia with adult circle absorption system (abstract), **25**: 99
in-vitro blood in evaluation of (Roos & Thomas), **28**: 1048
"lesion" of bank blood (abstract), **25**: 102
metabolic acidosis during anesthesia and surgery (review) (Bunker), **23**: 107
potassium levels and massive blood replacement (Schweizer & Howland), **23**: 735
and respiratory changes during pregnancy (review) (Prowse & Gaensler), **26**: 381
spontaneous readjustments in, at termination of prolonged hyperventilation (abstract), **22**: 130
ventilation-blood acid-base diagram (abstract), **24**: 131
Acid-base status of fetus, effect of anesthesia on (clinical workshop), **30**: 238
Acidosis: see also under Acid-Base Balance
effect on CO_2 titration (Mithoefer & others), **30**: 395
effects on glycolysis and pentose shunt in skeletal muscle (abstract), **30**: 348
hypercapnic, effects of THAM, mannitol and urea on intracranial hypertension of (abstract), **22**: 134
metabolic (current comment), **21**: 87
metabolic, hemodynamic effects in dogs (abstract), **27**: 228
profound, in anesthetized man, case report (Schultz & others), **21**: 285
respiratory, cause "cyclopropane hypertension"? (Li & Etsten), **22**: 49
respiratory, halothane and peripheral vascular resistance (abstract), **27**: 225
respiratory, in adrenalectomized dogs, norepinephrine release during (Millar & Morris), **22**: 62
role in asphyxial death (Kristoffersen & others), **28**: 488
ACTH
in plasma during ether anesthesia and surgery (Oyama & others), **29**: 559
Adams, J. G., Jr., see Patterson, J. F., jt. auth.
Adamson, K., Jr., and Towell, M. E., Thermal homeostasis in the fetus and newborn (review), **26**: 531
——, see Morishima, H. O., jt. auth.
Adapters
universal for endotracheal tubes (current comment), **25**: 727
Adenotonsillectomy
modified tongue blade for (current comment), **24**: 590
Adrenals
adrenocorticol mechanisms related to anesthesia (review) (Vandam & Moore), **21**: 531
apneic oxygenation in adrenalectomized dogs (Millar & Morris), **22**: 433
cortical hyperfunction, preoperative and postoperative management (review) (Cahill & Thorn), **24**: 472
iatrogenic cortical insufficiency (review) (Nelson), **24**: 457
medullary blockade, effect on blood pressure response to ephedrine (abstract), **22**: 139
norepinephrine release during respiratory acidosis in adrenalectomized dogs (Millar & Morris), **22**: 62
sympatho-adrenal responses to cyclopropane anesthesia in dog, influence of reserpine on (Bagwell & others), **25**: 148
sympatho-adrenal response to ether anesthesia in dog, influence of reserpine on (Bagwell & others), **25**: 15
Adrenal Medulla
discharge under halothane anesthesia (abstract), **23**: 148
Adrenal venous catecholamines decreased during methoxyflurane anesthesia (Li & others), **29**: 1145
Adrenalectomy for Cushing's syndrome (clinical workshop), **30**: 574
Adrenergic Blocking Agents
alpha and beta, effects on cyclopropane-catecholamine cardiac arrhythmias (Katz), **26**: 289
effect on hepatic toxicity of halothane in mice (abstract), **25**: 111
Adriani, J., Barbiturates combined with local anesthetics (editorial), **29**: 405
——, Disposal of carbon dioxide from devices used for inhalational anesthesia (Review), **21**: 742
——, New Drugs (editorial), **27**: 715
——, Respiratory stimulants (Editorial), **21**: 214
——, The Section of Anesthesiology of the American Medical Association (editorial), **22**: 488
——, The status of the consultant (editorial), **23**: 873
——, see Summers, F. W., jt. auth.
Aerosolization
of drugs during inhalation anesthesia (current comment), **25**: 239
Aerosols: see also Ultrasonic mists; Nebulization
bronchodilators and mucolytic agents (review) (Lovejoy & Morrow), **23**: 460
inhaled, effects of (medical intelligence) (Graff & Benson), **30**: 199
-IPPB therapy, simplified apparatus for (current comment), **26**: 362
ultrasonic, effect on lung of chronic exposure to (Modell & others), **28**: 680
ultrasonically-produced, effects on airway resistance in man (Cheney & Butler), **29**: 1099
ultrasonically-produced, effects on airway resistance in man (editorial) (Bushnell), **29**: 1085
Afibrinogenemia
and fibrinolysis (review) (Sherry), **27**: 465
Afonso, S., see Rowe, G. G., jt auth.
Age
arterial blood gases in older patients during anesthesia (abstract), **29**: 198

effect on lung mechanics and ventilation-perfusion relations in respiratory failure (abstract), **29**: 196
and halothane requirement (Gregory & others), **30**: 488
AGNEW, G. H., Special considerations in design of the operating area (symposium article), **31**: 107
AGUILAR, JOSE A., and BOLDREY, EDWIN B., The effect of Arfonad on the monkey, **21**: 3
AHLGREN, E. W., and STEPHEN, C. R., Mechanical ventilation of the infant (current comment), **27**: 692
——, and STEPHEN, C. R., A new mechanical ventilator for use during anesthesia (clinical workshop), **28**: 952
Air
pollution and disease (Ferris & Frank), **25**: 470
Air conditioning
in controlling bacteria in hospitals (symposium article) (Walters), **31**: 186
Air Embolism: see under Embolism
Air-Shields Respirator: see under Respirator
Air-Shields Ventimeter Ventilator
safety modification of (current comment), **26**: 361
Airway: see also Lungs, Respiration
acute chemical injury of, experience with six cases (Conner & others), **23**: 538
effects of scopolamine on (Smith & DuBois), **30**: 12
length to bifurcation of trachea (Schellinger), **25**: 169
mechanics, human, effect of halothane on (Patterson & others), **29**: 900
nasopharyngeal, design for (current comment), **22**: 498
resistance, changes following intravenous *d*-tubocurarine (Westgate & others), **23**: 65
upper, patency, influence of head-jaw position on (Morikawa & others), **22**: 265
upper, problems in resuscitation, studies of pharyngeal x-rays and performance by laymen (Ruben & others), **22**: 271
use and abuse of suctioning (current comment), **22**: 850
Airway dynamics, conference on (report of meeting) (Motoyama), **30**: 580
Airway obstruction
respiratory depression in sedated patients with (Gold & others), **30**: 492
Airway resistance
halothane and cyclopropane effects on (Hickey & others), **31**: 334
AKAMATSU, T. J., see FREUND, F. G., jt. auth.
——, see KENNEDY, W. F., JR., jt. auth.
AKDIKMEN, S. A., A modified technique for direct laryngoscopy and tracheal intubation (current comment), **27**: 321
——, and LANDMESSER, C. M., Anesthesia for surgery of the intrathoracic portion of the trachea (current comment), **26**: 117
ALANIS, J. M., see VIRTUE, R. W., jt. auth.
Alarm
pressure-sensitive ventilator (current comment), **26**: 359
ALBERT, C. A., see ALBERT, S. N., jt. auth.
ALBERT, S. N., Blood volume (review), **24**: 231
——, Clip-type syringe holder (current comment), **26**: 684
——, Effect of cyclopropane and halothane on the blood volume (current comment), **24**: 402
——, A new dual purpose Y connector (current comment), **25**: 575
——, SHIBUYA, J., ECONOMOPOULOS, B., RADICE, A., CUEVO, N., VARRONE, E. V., and ALBERT, C. A., Simultaneous measurement of erythrocyte, plasma, and extracellular fluid volumes with radioactive tracers, **29**: 908
ALBIN, M. S., Impurities in halothane (correspondence), **26**: 236
——, HORROCKS, L. A., and KRETCHMER, H. E., Halothane impurities and the Copper Kettle, **25**: 672
——, WHITE, R. J., and MACCARTY, C. S., Effects of sustained perfusion cooling of the subarachnoid space, **24**: 72
——, see SOLOWAY, M., jt auth.
ALBREGT, H. B., see STEVENS, H. R., jt. auth.
Albumin
influence on thiopental action in rats (Winters & others), **23**: 27
Alcohol
block (subarachnoid), histologic changes in spinal cord following (abstract), **21**: 104
Alcoholics, anesthesia requirements (abstract), **30**: 341
ALDINGER, E. E., see MAHAFFEY, J. E.; jt. auth.
ALEU, F., see PITTINGER C., jt. auth.
ALEXANDER, MANFRED (with ARTUSIO, JOSEPH F., and others), A clinical evaluation of methoxyflurane in man, **21**: 512
ALEXANDER, S. C., Controlled acid-base status with cardiopulmonary bypass and hypothermia (current comment), **24**: 400
——, COHEN, P. J., WOLLMAN, H., SMITH, T. C., REIVICH, M., and VAN DER MOLEN, R. A., Cerebral carbohydrate metabolism during hypocarbia in man. Studies during nitrous oxide anesthesia, **26**: 624
——, WOLLMAN, H., COHEN, P. J., CHASE, P. E., MELMAN, E., and BEHAR, M., Krypton and nitrous oxide uptake of the human brain during anesthesia, **25**: 37; correction, **25**: 581
——, see COHEN, P. J., jt. auth.
——, see WOLLMAN, H., jt. auth.
ALEXANDER, S. G., see BEHAR, M. G., jt. auth.
Algesimeter
earlobe, effect on pain threshold of certain phenothiazine derivatives alone or combined with nepheridine (current comment), **27**: 497
earlobe, further experience with (current comment), **27**: 88

Alkalosis: see under Acid-Base Balance
respiratory, cardiac output and post-ganglionic sympathetic activity during (Moster & others), **31**: 28
Allan, D., see Kay, B., jt. auth.
——, see Seleny, F. L., jt. auth.
Allen, Charles R. (with Corssen, Gunter), Cultured human respiratory epithelium: its use in the comparison of the cytotoxic properties of local anesthetics, **21**: 237
——, (participant-panel discussion), What is the significance of hypercarbia or hypocarbia in the anesthetized patient? **21**: 759
——, see Walker, J. A., jt. auth.
Allen, G. D., and Bonica, J. J., Amitriptyline (Elavil) as an agent for premedication (current comment), **26**: 571
——, and Freedman, G., A new device for pressure algesimetry (clinical workshop), **29**: 594
——, see Kennedy, W. F., jt. auth.
Allen, T., see DeLemos, R., jt. auth.
Allison, S. C., Kracke, W. I., and Keats, A. S., Significance of respiratory dead space alterations (editorial), **25**: 741
Allison, T., see Abrahamian, H. A., jt. auth.
N-Allyloxymorphone
-narcotic mixtures, effect in anesthetized subjects (abstract), **24**: 129
Alopecia
postoperative (pressure) (current comment), **25**: 869
Alper, M. H., The ether controversy revisted (current comment), **25**: 560
——, Flacke, W., and Krayer, O., Pharmacology of reserpine and its implications for anesthesia (review), **24**: 524
——, Fleisch, J. H., and Flacke, W., The effects of halothane on the responses of cardiac sympathetic ganglia to various stimulants, **31**: 429
——, see Flacke, W., jt. auth.
——, see Fletcher, S. W., jt. auth.
——, see Garfield, J. M., jt. auth.
——, see Rutledge, C. O., jt. auth.
Alpha-methyldopa
effect on halothane requirement (MAC) (abstract), **29**: 204
Alprenolol
in treatment of cardiac arrhythmia (clinical workshop), **31**: 93
Altenburg, B. M., Michenfelder, J. D., and Theye, R. A., Acute tolerance to thiopental in canine cerebral oxygen consumption studies, **31**: 443
Alter, H., see Rehder, K., jt. auth.
Altitude
high, in relation to anesthesia and inhalation therapy (Safar & Tenicela), **25**: 515
Altschule, M. D., In praise of ignorance—sometimes (editorial), **25**: 121
Altstatt, A. H., see McAleavy, J. C., jt. auth.
Altura, B. M., see Hershey, S. G., jt. auth.
Alveolar Concentration: see under Anesthesia; names of specific agents and compounds
Alveolus
architecture, effect of isotonic saline on (abstract), **26**: 252
gas composition, effect of variations in lung volume and, on rate of fall of oxygen saturation during apnea (abstract), **22**: 128
Amaha, K., Liu, P., Weitzner, S. W., and Harmel, M. H., Effects of constant chest compression on the mechanical and physiologic performance of different ventilators, **28**: 498
American Academy of Pediatrics (report of meeting) (Motoyama), **29**: 391
American Association of Blood Banks (report of meeting) (Bovel), **29**: 605
American Board of Anesthesiology
statement, **27**: 522
American Medical Association
Section on Anesthesiology (editorial), **22**: 488
Americal Society of Anesthesiologists, Inc.
Anesthesia Memorial Foundation (editorial), **21**: 78
dedication of headquarters building, **21**: 433
let's set our sights (editorial), **23**: 710
new classification of physical status, **24**: 111
American Society of Clinical Hypnosis (report of meeting) (Rodger), **29**: 396
2-Amino-2-hydroxymethyl-1,3-propanediol: see THAM
Amitriptyline (Elavil)
as agent for premedication (current comment), **26**: 571
Ammonium salts
prolonged sensory block using (abstract), **28**: 244
Amniotic Fluid
embolism (review) (Shnider & Moya), **22**: 108
Analeptics
outmoded therapy of barbiturate poisoning (editorial), **23**: 713
Analgesia: see Pain, relief; Neurolept Analgesia
epidural, prilocaine for in obstetrics (Poppers & Finster), **29**: 1134
Analgesics: see Pain, relief; Narcotics; names of specific agents and compounds
design of experiments evaluating (editorial), **23**: 711
evaluation (abstract), **30**: 342
evaluation by rating of patient behavior (Steinhaus & others), **25**: 64
narcotic antagonists as (abstract), **21**: 117
Analog Computer: see Computer, analog
Anaphylaxis
with use of dextran (case report) (current comment), **25**: 244
Andersen, M. N., see Lauria, J. I., jt. auth.
Andersen, N. B., Anesthetics and cell division (editorial), **30**: 361
——, Effect of general anesthetics on sodium transport in the isolated toad bladder (biophysical observation), **27**: 304

——, Effects of sodium thiopental and catecholamines on sodium transport in toad bladder *in vitro* (abstract), **30**: 335
——, Synergistic effect of cyclopropane and epinephrine on sodium transport in toad bladder, **28**: 438
——, The teratogenicity of cyclopropane in the chicken, **29**: 113
——, and JOHANSEN, S. H., Incidence of catecholamine-induced arrhythmias during halothane anesthesia, **24**: 51
ANDERSEN, T., and GRAVENSTEIN, J. S., Cardiovascular effects of sedative doses of pentobarbital and hydroxyzine, **27**: 272
——, see FIELDER, D. L., jt. auth.
——, see GRAVENSTEIN, J. S., jt. auth.
ANDERSON, B. M., see SCHNEIDER, P. J., jt. auth.
ANDREWS, I. C., and ORKIN, L. R., Environmental cold and man, **25**: 549
Anemia
effects on cerebral metabolism and blood flow (Michenfelder & Theye), **31**: 449
Anesthesia: see also under names of specific agents and procedures
acid–base status of fetus during (clinical workshop), **30**: 238
action, correlation with theories of, temperature dependence of halothane and cyclopropane anesthesia in dogs (Eger & others), **26**: 764
adrenocortical mechanisms related to (review) (Vandam & Moore), **21**: 531
agents and adjuvants, influence upon intestinal tone (abstract), **21**: 96
agents, detection of volatile organic, in blood, gases and tissues (Lowe), **25**: 808
agents, effects on myocardial catecholamines (Li & others), **25**: 641
agents, influence of concentration effect on uptake of anesthetic mixtures, second gas effect (Epstein & others), **25**: 364
agents, influence on cardiac excitability (abstract), **24**: 141
agents, protein binding of molecules (editorial), **24**: 607
agents, use in psychiatry (Nagle), **24**: 91
agents (volatile), new vaporizer for (current comment), **22**: 1014
agents, volatile, preservation in blood and tissue (current comment), **25**: 566
alveolar arterial oxygen tension difference in anesthetized man (Bergman), **28**: 517
anesthetic equilibration, effects of hyperventilation on cerebral (Munson & Bowers), **28**: 377
anesthetic index (apnea/MAC), determination of (Regan & Eger), **28**: 689
art of preparing patient for (Rodger), **22**: 548
aspects of renal homotransplantation (Vandam & others), **23**: 783
and atelectasis (Colgan & Whang), **29**: 917
and atelectasis (editorial) (Finley), **29**: 863
block, modified axillary, lateral antebrachial cutaneous nerve (de Jong), **26**: 615
block, subarachnoid (alcohol), histologic changes in spinal cord following (abstract), **21**: 104
blood carbonic anhydrase activity in anesthetized man (Christian & Greene), **23**: 179
and blood replacement, effects on glycolysis and citric acid cycle (abstract), **28**: 266
brachial plexus block (clinical workshop), **30**: 332
caudal (continuous), clinical appraisal (obstetrical) of 2-chloroprocaine (Nellermoe & others), **21**: 269
caudal, for obstetrics (Gunther & Bauman), **31**: 5
caudal, Intracath unit for (current comment), **24**: 252
caudal, lumbar epidural, axillary block, and intravenous regional, plasma lidocaine concentrations after (Mazze & Dunbar), **27**: 574
central nervous system effects of hyperventilation during (abstract), **22**: 128
chloroform, electroencephalogram during (Thomas & others), **22**: 542
circle system, nitrous oxide concentration in (Egar), **21**: 348
clinical, halothane concentration in (Smith & Volpitto), 1; (current comment), **21**: 438
closed circuit, concentrations of halothane, ether and cyclopropane in inspired atmospheres during (Fabian & others), **22**: 459 (correction), **22**: 1021
closed circuit, utilizing known increments of halothane (Hampton & Flickinger), **22**: 413
comparison of central and peripheral venous pressures during (abstract), **26**: 238
complication of (current comment), **21**: 436
components, differences in effects of cyclopropane ether and halothane on (abstract), **21**: 95
control of concentration of volatile agents in open in vitro systems (current comment), **27**: 687
control of sensory input at spinal-cord level as mechanism of (abstract), **29**: 183
cost of halothane in low flow system (current comment), **21**: 324
data sheet (current comment), **25**: 294
department, active management of tetanus based on experiences of (review) (Jenkins & Luhn), **23**: 690
determination of anesthetic potency (abstract), **24**: 130
and drug effects, hyperbaric oxygenation (special article), **26**: 812
drugs used in, placental transfer of (review) (Marx), **22**: 294
duration of, effect of thiopental metabolism on (Saidman & Eger), **27**: 118
effect of hypocapnia on cardiac output during (Theye & others), **27**: 778
effect of inspired anesthetic concentration on rate of rise of alveolar concentration (Eger), **24**: 153
effect of nitrous oxide and narcotic premedication on alveolar concentration of halothane required for (Saidman & Eger), **25**: 302
effect of P_{CO_2} on depth of (McAleavy & others), **22**: 260

effect of standard cyanotic circulatory lesion on induction dose of methohexital in dog (abstract), **26**: 254
effect on patients receiving reserpine therapy (Munson & Jenicek), **23**: 741
effect on response of microcirculation to circulating humors (review) (Baez & Orkin), **24**: 568
effect on tolerance of dog brain to anoxia (abstract), **25**: 98
effects of agents on toothpulp thresholds in rabbits (abstract), **21**: 112
effects of baroreflex control of heart rate (Bristow & others), **31**: 422
effects on blood viscosity (Boyan & others), **27**: 279
effects on endocrine response to injury (review) (Van Brunt & Ganong), **24**: 500
effects on newborn, physiologic adjustments at birth (review) (James), **26**: 501
effects upon liver enzymes, reflecting cellular damage (abstract), **26**: 258
electrical: see also Electronarcosis
electrical (review) (Van Poznak), **24**: 101
electrical, by direct and alternating currents, electron microscopy of dog brain (Smith & others), **26**: 607
electrical, method for recording electroencephalograms during (current comment), **24**: 728
electrocardiogram during (Cannard & others), **21**: 194
emergencies, synoptic interpretation of ECG and EEG in (Leonhardt), **22**: 918
emotional responses of patients to surgery and (Sheffer & Greifenstein), **21**: 502
endobronchial, blood gas exchange during (abstract), **21**: 100
endotracheal, tongue blade modification for (current comment), **25**: 723
epidural, disposable ureteral catheter for (current comment), **26**: 116
epidural, identification of epidural space (case report) (current comment), **22**: 125
epidural, physiology and pharmacology of (Bromage), **28**: 592
epidural, spinal epidural hematoma following (clinical workshop), **29**: 162
epidural, venous system in cardiopulmonary dynamics during (Shimosato & Etsten), **30**: 619
epidural, ventilatory reserve and motor block during (Freund & others), **28**: 834
equipotent alveolar concentrations of methoxyflurane, halothane, diethyl ether, fluoroxene, cyclopropane, xenon and nitrous oxide in dog (Eger & others), **26**: 771
ether, hemodynamics and blood volume during operation with, and unreplaced blood loss (Theye & Tuohy), **25**: 6
ethylene-halothane, additive effect (Miller & others), **31**: 301
experience in children with cystic fibrosis of pancrease (Salanitre & others), **25**: 801
for cardiac surgery (review) (Moffitt & others), **29**: 1181
for cardiac transplants (Keats & others), **30**: 192
for cardiovascular surgery in infancy (Strong & others), **27**: 257
for neurosurgery (review) (Michenfelder & others), **30**: 65
for peroral endoscopy and bronchography (review) (Proctor), **29**: 1025
for surgery of intrathoracic portion of trachea (current comment), **26**: 117
frost and topical refrigeration (annals of history) (Furnas), **26**: 344
functional importance of hepatic circulation induced by (editorial) (Papper), **27**: 4
functional residual capacity and dynamic lung compliance during, measurement of (Colgan & Whang), **28**: 559
general, cerebral circulation during, thiopental induction to nitrous oxide and *d*-tubocurarine (Wollman & others), **26**: 329
general, effect of succinylcholine in intraocular pressure during (Craythorne & others), **21**: 59
general, effects on contractile responses of rabbit aortic strips (Price & Price), **23**: 16
general, effects on sicklemic patients (abstract), **29**: 193
general, in mice, synergistic and antagonistic effects of premedication (Carson & Domino), **23**: 187
general, intravenous lidocaine as adjuvant to (abstract), **21**: 112
general, measurement of spinal reflex response during, in man (de Jong & others), **28**: 382
general, mechanisms of (Wall), **28**: 46
general, multiple, gastroesophageal reflux and spontaneous esophageal rupture following (clinical workshop), **28**: 782
general, narcotic analgesic and butyrophenone with nitrous oxide for (Holderness & others), **24**: 336
general, nerve impulse conduction and cutaneous receptor responses during (de Jong & Nace), **28**: 851
general, pulmonary hemodynamics during (Price & others), **30**: 629
general, skeletal, esophageal and rectal temperatures during operation and (Wollman & Cannard), **21**: 476
general, value of venous oxygen levels during (Theye & Tuohy), **26**: 49
general, venous and arterial pH and P_{CO_2} during (abstract), **24**: 134
general, with cyclopropane, injection of epinephrine during (Matteo & others), **24**: 327
general, with halogenated hydrocarbons, infiltration of epinephrine during (abstract), **23**: 156
general agents, effects on tissue oxygen "tensions," (abstract), **24**: 142
guide for anesthesiologists, myasthenia gravis (review) (Foldes & McNall), **23**: 837
halogenated agents, hepatic function following (abstract), **21**: 109

XUM

halothane and beta-adrenergic blockade in management of pheochromocytoma (Copperman & others), **28**: 575
hazard of intragastric cyclopropane (clinical workshop), **28**: 771
hazards for diagnostic procedures (editorial), **21**: 553
hiccups during, treatment of (current comment), **28**: 463
high altitude physiology in relation to (Safar & Tenicela), **25**: 515
history (Keys), **30**: 447
history, Ralph M. Waters award lecture (Magill), **28**: 202
hyperthermia, malignant, during (clinical workshop), **31**: 97
hypotensive; surgeon's view (editorial) (McLaughlin), **27**: 239
in asthmatics, mechanics and blood gas tensions during (abstract), **27**: 216
increased physiologic shunting during (abstract), **24**: 122
inert gases, interactions with proteins (Featherstone & others), **22**: 977
inhalation, aerosolization of drugs during (current comment), **25**: 239
inhalation, disposal of carbon dioxide from devices used for (review) (Adriani), **21**: 742
inhalation, effect on cardiac cell membrane potentials (abstract), **21**: 100
inhalation, effect on cerebral hemodynamics and metabolism (abstract), **21**: 89
inhalation, effects on blood viscosity (abstract), **27**: 208
inhalation, performance of lungs and bronchi during (Colgan), **26**: 778
inhalation, role of preanesthetic medication in modifying hypersynchronous electrical waves in rhinencephalic structures induced with (abstract), **22**: 133
inhalation agents, and permeability of human erythrocytes to monosaccharides (Greene), **26**: 731
inhalation agents, effect of uneven pulmonary distribution of blood and gas on induction with (Eger & Severinghaus), **25**: 620
inhalation agents, influence on potassium content of rat atria (abstract), **25**: 106
inhalation systems, nomenclature (editorial), **25**: 3
inhalational, concentration of halothane in closed and semiclosed circuits during controlled ventilation (Hill & Lowe), **23**: 291
inhalational, disposal of carbon dioxide from apparatus used for (abstract), **23**: 148
inhalational, in vitro effects on viscosity of human blood (Behar & Alexander), **27**: 567
injection, epidural, dural penetration following (abstract), **28**: 261
intermittent administration set (current comment), **23**: 877
intermittent deep breaths and compliance during (Egbert & others), **24**: 57
intrathecal, clinical observations on use of mepivacaine (Poe & others), **23**: 678
intravenous, technical problems of studying (Egbert & Mitchell), **22**: 186
intravenous emulsions, use in animals and man (current comment), **22**: 491
intravenous regional of upper extremity (current comment), **26**: 827
intravenous regional with chloroprocaine (abstract), **26**: 244
intravenous thiobarbiturate for cesarean section (Kosaka & others), **31**: 489
isovolemic intraventricular pressure change as index of myocardial contractility during (Shimosato), **31**: 327
lactate, pyruvate and excess lactate production in (Greene), **22**: 404
and levels of consciousness (editorial), **22**: 315
light and deep, catechol amine levels during (Hamelberg & others), **21**: 297
light general, circulatory responses to endotracheal intubation in, effect of atropine and phentolamine (DeVault & others), **21**: 360
and liver (review) (Little & Wetstone), **25**: 815
local, activity of partially hydrolyzed solutions of tetracaine hydrochloride (VanDeripe & Yim), **21**: 26
local, chloroprocaine (abstract), **21**: 92
local, effects of agents on heart force (abstract), **23**: 160
local, prevention of succinylcholine fasciculation with (Wikinski & others), **26**: 3; (correspondence), **26**: 696
local, solutions containing epinephrine, buffer-demand and pH of (de Jong & Cullen), **24**: 801
local agents, effect on cardiovascular system in dog (Steward & others), **24**: 620
local agents, multiple autoclaving of commercial solutions containing dilute epinephrine (current comment), **24**: 582
local agents, physiological mechanisms of peripheral nerve block by (review) (de Jong & Wagman), **24**: 684
local agents, toxicity modified by oxygen and combination of agents (Daos & others), **23**: 755
local agents, transfer to subarachnoid space and mechanisms of epidural block (Usubiaga & others), **25**: 752
local anesthetics, cultured human respiratory epithelium use in comparison of cytoxic properties of (Corssen & Allen), **21**: 237
machines: see also under Apparatus and equipment
machines, malfunction of new (case report) (current comment), **25**: 867
management during open intracardiac surgery (Theye & others), **23**: 823
management for cardiopulmonary bypass in community hospital (Pierce & others), **22**: 444
management in pheochromocytoma (review) (Goldfien), **24**: 462

management in Treacher-Collin's syndrome (current comment), **26**: 692
management of child with cleft lip-palate malformation (Salanitre & Rackow), **23**: 610
management of Wiskott-Aldrich syndrome (current comment), **27**: 199
measurement of blood and gas carbon dioxide during (review) (Severinghaus), **21**: 717
measurement of blood oxygen tension in (review) (Laver & Seifen), **26**: 73
measurement of inspiratory force in anesthetized dogs (Bendixen & Bunker), **23**: 315
mechanics of breathing during, influence of airway adequacy (Gold & Helrich), **26**: 751
mechanics of respiratory system during (Don & Robson), **26**: 168
mechanism of brachial plexus palsy following (Jackson & Keats), **26**: 190
mechanism of neurophysiological studies of (editorial) (Wall), **28**: 799
method of induction in children (abstract), **25**: 107
methoxyflurane, effect of epinephrine on dog heart during (Bamforth & others), **22**: 169
methoxyflurane gradients during (abstract), **26**: 251
minimum concentration of fluoroxene, effect of nitrous oxide and morphine on (Munson & others), **26**: 134
modified Valsalva maneuver as test of circulatory integrity under (abstract), **26**: 239
monitoring during (current comment), **22**: 643
neuroendocrine and other effects on carbohydrate metabolism during (review) (Bunker), **24**: 515
neurophysiology of (Winters & others), **28**: 65
nitrous oxide, and hypocarbia in normal man, splanchnic circulation during (Cooperman & others), **29**: 254
nondepolarizing relaxant effects on neuromuscular refractory period during (Epstein & others), **31**: 69
nonflammable agents, fire with (case report) (current comment), **22**: 498
nonrebreathing assembly (current comment), **26**: 229
nonrebreathing respirator-controlled, with methoxyflurane (current comment), **24**: 254
obstetric, halothane in (abstract), **26**: 256
obstetrical, cerebrospinal fluid pressures during labor and (Marx & others), **22**: 348
obstetrical unusual complications from placement of catheters in caudal canal (current comment), **27**: 96
pediatric, ether screen for (current comment), **21**: 324
pediatric reference card (current comment), **27**: 864
pentobarbital, potentiation by competitive protein binding (Lasser & others), **24**: 665
peridural, cardiovascular and renal hemodynamic changes during (Kennedy & others), **31**: 414
peridural evaluation of lidocaine, mepivacaine and L-67 (Citanest) (Crawford), **25**: 321
peridural, venous blood concentration of local anesthetic agents during (abstract), **26**: 255
and pharmacogenetics (review) (Kalow), **25**: 377
pharmacology of reserpine and implications for (review) (Alper & others), **24**: 524
physiologic responses of anesthetized dog to oxygen at five atmospheres absolute (Gutsche & others), **27**: 615
physiologic shunt and cardiac output during (Yamamura & others), **30**: 406
pleasant way to induce in children (current comment), **27**: 691
postanesthetic complications, atelectasis, pneumothorax, and aspiration as (review) (Hamilton), **22**: 708
postanesthetic complications, cardiac arrhythmias (review) (Buckley & Jackson), **22**: 723
postanesthetic complications, changes in electrolyte balance (review) (McMurrey & Law), **22**: 819
postanesthetic complications, embolic phenomena (review) (Patrick & Devloo), **22**: 751
postanesthetic complications, failure of the peripheral vascular circulation (review) (Sugioka & Grosskreutz), **22**: 759
postanesthetic complications, failure to regain consciousness after general (review) (Haugen), **22**: 657
postanesthetic complications, inadequate ventilation (review) (Dam & Guldmann), **22**: 699
postanesthetic complications, incidence and etiology of excitement (review) (Eckenhoff & others), **22**: 667
postanesthetic complications, nausea and vomiting (review) (Belleville), **22**: 773
postanesthetic complications, neurological sequelae of spinal (review) (Greene), **22**: 682
postanesthetic complications, reactions during transfusions and infusions (review) (Seldon), **22**: 810
postanesthetic complications, related to body positions during surgery (review) (Lincoln & Sawyer), **22**: 800
postanesthetic complications, renal (review) (Boba & Landmesser), **22**: 781
postanesthetic complications, sudden cardiac collapse (review) (Martin), **22**: 738
postanesthetic complications, temperature changes (review) (Stephen), **22**: 795
postanesthetic emesis, control with trimethobenzamide (current comment), **22**: 492
postanesthetic scoring system (current comment), **25**: 294
postspinal headache, treatment of (current comment), **21**: 565
practice, tubular and peripheral vision in (editorial), **22**: 1008
preanesthetic visit (editorial), **22**: 486
pressure breathing, "lost gas" in (abstract), **22**: 141
pulmonary compliance during (Gold & Helrich), **26**: 281

XUM

pulmonary compliance in anesthetized man (editorial) (Larson), **26**: 708
records: see also under Anesthesia, data
records, comprehensive simple (special article), **21**: 557
recovery, operant behavior during, continuous and objective method (Lindsley & others), **22**: 937
regional assessment of place in therapeutics (Papper), **28**: 1074
regional, Innovar as supplement to (clinical workshop), **31**: 574
regional, in private practice (editorial), **21**: 554
remote control during radiation therapy (current comment), **24**: 112
renal effects of, mediated by endocrines (review) (Hayes & Goldenberg), **24**: 487
reserpinized patient, hazard to (medical intelligence) (Ominsky & Wollman), **30**: 443
respiratory effects of resistance to breathing in (Nunn & Ezi-Ashi), **22**: 174
respiratory threshold for carbon dioxide in (Hanks & others), **22**: 393
respiratory work during (abstract), **28**: 273
second gas effect (Stoelting & Eger), **30**: 273
service, organization of obstetric (review) (Shnider), **26**: 562
significance of hypercarbia or hypocarbia in anesthetized patient (panel discussion), **21**: 759
silicone rubber shunt for induction with volatile anesthetics (Folkman & others), **29**: 410
silicone rubber shunt for induction with volatile anesthetics (editorial) (Eger), **29**: 401
silicone rubber-occluded hypodermic needle for intracerebral gas anesthesia (Folkman & others), **29**: 419
spinal: see also Spinal Hemianalgesia
spinal (current comment), **22**: 126
spinal, cause of pain from pneumatic tourniquet during (Egbert & Deas), **23**: 287; (current comment), **23**: 881
spinal, central and peripheral venous oxygen saturations during (abstract), **27**: 209
spinal, cerebrospinal fluid cells and proteins following (Marx & others), **24**: 305
spinal, and cerebrospinal fluid proteins in obstetrics (Marx & Orkin), **26**: 340
spinal effect of epinephrine upon duration (Egbert & Deas), **21**: 345
spinal, effect of mephentermine upon venous circulation during (abstract), **25**: 90
spinal, electromyograph in study of ventilation under (abstract), **23**: 165
spinal, hemodynamics of mephentermine during (Li & others), **24**: 817
spinal, high, ventilatory reserve and motor block during (Freund & others), **28**: 834
spinal, low, bizarre pain phenomena during (de Jong & Cullen), **24**: 628
spinal, metaraminol as vasopressor agent in (Munchow & others), **21**: 471
spinal, methoxamine and cardiac output in nonanesthetized man and during (Li & others), **26**: 21
spinal, neurologic deficit following (clinical workshop), **28**: 785
spinal, phantom sensations during (Prevoznik & Eckenhoff), **25**: 767
spinal, physiologic treatment of hypotension associated with (abstract), **28**: 276
spinal, pulmonary function during, mechanism of cough depression (Egbert & others), **22**: 882
spinal, subdural space in (current comment), **24**: 869
spinal, using a 32-gauge needle (Frumin), **30**: 599
spinal, venous system in cardiopulmonary dynamics during (Shimosato & Etsten), **30**: 619
spinal, with lidocaine, neurologic complications (Phillips & others), **30**: 284
spinal, with tetracaine, determination of sensory and motor levels after (Walts & others), **25**: 634
spinal and extradural, compared effects upon blood pressure (Defalque), **23**: 627
standard of potency, minimum alveolar anesthetic concentration (Eger & others), **26**: 756
subarachnoid block, effect of position of lumbar spine (Smith), **29**: 60
subarachnoid block in presence of acute blood loss, effects of (Kennedy & others), **29**: 29
surgery and Rauwolfia (Katz & others), **25**: 142
surgical, automated blood pressure monitoring during (current comment), **27**: 861
and sweating, causes and effects (Linton), **22**: 56
system(s) closed circle, carbon monoxide accumulation in (Middleton & others), **26**: 715
systems, inexpensive, for administration of ether (current comment), **22**: 323
systems, low flow, halothane in (current comment), **22**: 324
system(s) nebulizer for (current comment), **23**: 583
systems, respiratory water loss via, mask breathing (Chase & others), **22**: 205
systems, semiclosed carbon dioxide elimination in (Brown & others), **25**: 31
and systemic venous circulation (review) (Lurie), **24**: 368
technique(s), influence on oxygen consumption during total cardiopulmonary bypass (Underwood & others), **21**: 263
techniques, micromethods in neuropharmacology (Salmoiraghi & Weight), **28**: 54
theory, correlation with of minimum alveolar concentrations of anesthetic agents (Saidman & others), **28**: 994
for thoracic surgery (editorial) (Bendixen), **28**: 649
time-dose curves, influence of respiratory parameters upon intravenous drug requirements (Keéri-Szanto & Leduc), **23**: 231
topical, endotracheal cuff arrangement to facilitate (current comment), **25**: 721

topical, and lubricants used with endotracheal tubes, effects on postoperative sore throats (current comment), **26**: 681
topical, simplified technique for bronchography (current comment), **26**: 358
topical drugs, potency and duration of action (abstract), **24**: 120
trichloroethylene (review) (Atkinson), **21**: 67
unusual cause of hypoxia under (current comment), **27**: 867
vasoconstriction produced by (Cristoforo & Brody), **29**: 36, 44
ventilation and anesthetic solubility effects on recovery (Stoelting & Eger), **30**: 290
ventilation of emphysematous patient during (abstract), **24**: 126
ventilator techniques for neurosurgery (abstract), **22**: 143
vomiting and aspiration during (review) (Bannister & Sattilaro), **23**: 251; (current comment), **23**: 718
xenon–halothane, additive effect (Cullen & others), **31**: 305
Anesthesiologie Internationale (editorial), **24**: 249
Anesthesiologists
aid to our Far East confreres (editorial), **23**: 875
and use and care of laboratory animals (editorial), **22**: 832
as investigator (Papper), **25**: 454
attitudes and practices (editorial), **21**: 322
causes of deaths among (medical intelligence) (Bruce & others), **29**: 565
function of (current comment), **23**: 272, (current comment), **23**: 719
hallmarks of maturity (editorial), **22**: 830
life among anesthetists: recollections of forty years (Leake), **25**: 428
life expectancy (correspondence), **31**: 197
machines and men (current comment), **23**: 136
patient to (poem), **23**: 125
postgraduate education (editorial), **23**: 577
radiation exposure (current comment), **23**: 267
regional anesthesia in private practice (editorial), **21**: 554
responsibilities in tracheostomy (Crawford), **22**: 86
responsibility for breathing (editorial), **22**: 615
service through self-sacrifice (editorial), **22**: 615
share your medical journals, **23**: 765
status of consultant (editorial), **23**: 873
today and tomorrow (editorial), **21**: 78
United States Pharmacopeia and (editorial), **27**: 115
unjustified distractions (editorial), **23**: 265
view of himself and his speciality (Porter), **25**: 436
Anesthesiology
achievements of past and challenges of future (editorial) (Bonica), **26**: 705
and obstetrics (correspondence), **27**: 101
and obstetrics (editorial) (Hingson), **26**: 378
monitors and clinical judgment (editorial), **22**: 120
New China's achievements in (abstract) (current comment), **22**: 855
obstetrician's view of (editorial) (Reid), **26**: 377
one method of teaching to medical students (Smith & Cullen), **24**: 68
research, gas chromatography, analytical method for (Summers & Adriani), **22**: 100
scope of clinical practice of (editorial) (Papper), **28**: 969
Section on, American Medical Association (editorial), **22**: 488
specialty, growth in United States since 1940 (Thomas), **25**: 226; (current comment), **25**: 872; 873
time constants in (Fink), **27**: 838
what's right with (correspondence), **27**: 333
Wood Library-Museum (Betcher & others), **22**: 618
ANESTHESIOLOGY, change to monthly publication (editorial) (Vandam), **30**: 1
change without alteration (editorial), **24**: 248
history (Cullen), **25**: 416
profile of an audience (Sweigert & others), **22**: 834
twenty-fifth anniversary, **25**: 415
Anesthetic agents: see also under Anesthesia; specific agents and compounds
additive effects (Cullen & others), **31**: 305
additive effects (Miller & others), **31**: 301
and response of atria to sympathetic nerve stimulation (Naito & Gillis), **29**: 259
cell division and (editorial) (Andersen), **30**: 361
depression of oxygen uptake in cell culture by (Fink & others), **30**: 150
determining solubility of utilizing Scholander apparatus (Saidman & others), **27**: 180
differentiation of two types of pain by (Robson & others), **26**: 31
dose measured by determining monosynaptic transmission in cat spinal cord (de Jong & Robles), **29**: 887
effect of concentration-dependent solubility on uptake (abstract), **29**: 187
effect of irradiation on (current comment), **26**: 106
effect on central nervous system toxicity of hyperbaric oxygen (Harp & others), **27**: 615
effect on central nervous system toxicity of hyperoxia (abstract), **26**: 250
effects of, anatomy and physiology of intrarenal oxygen tension (Leonhardt & others), **26**: 648
effects on blood levels of glucose, pyruvate, lactate, and metabolites of the citric acid cycle (Schweizer & others), **28**: 814
effects on cardiovascular responses to hypothalamic and mesencephalic stimulation in dogs (abstract), **27**: 223
effects on cortical units (Robson), **28**: 144
effects of equieffective concentrations on force of contraction of rat heart (Paradise & Bibbins), **31**: 349
effects of mammalian spinal cord (Somjen), **28**: 135
effects on neuromuscular transmission and somatic reflexes (Ngai & others), **26**: 162

XUM

effects on neurons (Chalazonitis), **28**: 111
effects on release of norepinephrine from sympathetic nerves (abstract), **29**: 207
effects on sympathetic nervous system (editorial) (Biscoe), **31**: 395
effects on visually evoked responses (Domino), **28**: 184
epidural analgesia, pharmacology of (Bromage), **28**: 592
fluorinated, investigations into teratogenic effects of (abstract), **26**: 260
fluorinated, recovery times of dogs after (current comment), **26**: 102
ganglion-blocking potencies of cyclopropane, halothane and nitrous oxide (Price & Price), **28**: 349
gas chromatographic determination in blood (Pratt & others), **28**: 432
gas chromatography in determination of in biological fluids (laboratory methods) (Asling & others), **31**: 458
general, effect on sodium transport in isolated toad bladder (Andersen), **27**: 304
general, effects on tracheal smooth muscle (Fletcher & others), **29**: 517
general, ganglionic actions of, pharmacologic analysis (Garfield & others), **29**: 79
general, produce splanchnic visceral hypoxia by reducing regional blood flow? (Price & others), **27**: 24
halogenated, electron micromorphologic response of dog liver to (abstract), **27**: 214
hydrocarbon anesthetic agents, determination in blood by gas chromatography (Butler & others), **28**: 760
immunosuppressants in transplant therapy (clinical workshop), **30**: 235
influence on bronchial caliber and lung compliance in dog (abstract), **26**: 242
inhalation, direct injection method for gas chromatographic measurement of in blood and tissues (Yokota & others), **28**: 1064
inhalation, effects on cerebral metabolism of serotonin in the rat (Diaz & others), **29**: 959
inhalation, effects on forearm blood flow (abstract), **28**: 271
inhalation, effects of hypothermia on in dogs (Regan & Eger), **28**: 689
inhalation, effects on motor nerve activity (Van Poznak), **28**: 124
inhalation, evaluation of new agent, Compound 347 (Dobkin & others), **29**: 275
inhalation, gas chromatographic analysis in whole blood by equilibration method (Yamamura & others), **27**: 311
interaction with adrenergic drugs to produce cardiac arrhythmias (Katz & Epstein), **29**: 763
level and electrical impedence of the brain stem (abstract), **27**: 231
local convulsant doses in the cat (Tuttle & Elliott), **30**: 48
local, distribution in canine neuraxia (Cohen), **29**: 1002
local, role of *p*H in development of tachyphylaxis to (Cohen & others), **29**: 994
local, seizures caused by (editorial) (de Jong), **30**: 5
local, stability after autoclaving determined by gas chromatography (Katz), **27**: 835
local, synergistic toxicity of (abstract), **28**: 238
local, venous concentration during peridural anesthesia (abstract), **26**: 255
mechanisms of action (editorial) (Miller), **30**: 127
metabolism of (review) (Greene), **29**: 127, 327
metabolism of volatile (review) (Van Dyke & Chenoweth), **26**: 348
minimum alveolar concentration, relation to central catecholamine levels (Miller & others), **29**: 1153
minimum alveolar concentrations of methoxyflurane, halothane, ether, and cyclopropane in man: correlation with theories of anesthesia (Saidman and others), **28**: 994
muscle relaxants and renal excretion (Churchill-Davidson and others), **28**: 540
nerve impulse conduction and cutaneous receptor responses during general anesthesia (de Jong and Nace), **28**: 851
neurophysiology of anesthesia (Winters & others), **28**: 65
new, CI-581 (abstract), **28**: 258
new, CI-581 (Virtue & others), **28**: 823
percutaneous loss (Stoelting & Eger), **30**: 278
potencies, H-reflex as a measure of (Freund & others), **30**: 642
potency determined by depression of synaptic transmission (de Jong & others), **29**: 1139
potency, variation with vapor pressure (correspondence) (Sachs; Eger), **29**: 1064
rubber-gas partition coefficients (clinical workshop), **29**: 1215
spinal, anesthetic solutions, *in vitro* changes of osmolality and density of (Ernst), **29**: 104
spinal, osmolality of (current comment), **27**: 86
spinal, reflex response during general anesthesia in man (de Jong & others), **28**: 382
spironolactone inhibition of effects (Selye & others), **31**: 261
subanesthetic concentrations of halothane and methoxyflurane, effect on pain threshold (Siker & others), **28**: 337
synergistic effects (Cullen & others), **31**: 305
synergistic effects (Miller & others), **31**: 301
topical effect of *p*H on activity of (abstract), **26**: 266
toxic effects, symposium on (report of meeting), **28**: 956
uptake, and cerebral blood flow (editorial), **25**: 1
uptake, and distribution in mice and rats (abstract), **28**: 260
uptake, distribution and placental transport of (review) (Moya & Smith), **26**: 465
uptake, in infants and children (Salanitre & Rackow), **30**: 388

volatile, actions on neurons (Calazonitis), **28**: 111
volatile, administration through silicone rubber arteriovenous shunts (Folkman & others), **29**: 410
volatile, effects on neuromuscular transmission (Karis & others), **28**: 128
volatile, effects on nonexcitable tissue (abstract), **30**: 345
volatile, metabolic effects in cell culture (Fink & Kenny), **29**: 505
volatile, uptake and metabolism of chloroform in the mouse (Cohen & Hood), **30**: 306
Anesthetists: see also Anesthesiologist
in Thomas Eakins' "clinics" (annals of history) (Eckenhoff), **26**: 663
occupational exposure to halothane, nitrous oxide and radiation (Linde & Bruce), **30**: 363
Aneurysm
thoracic, obstruction from (current comment), **23**: 396
Angiotensin
and norepinephrine, comparison of effect on blood volume and viscosity (abstract), **25**: 109
vasopressor, evaluation (abstract), **22**: 146
Anoxia: see also under Oxygen
diffusion: reappraisal (Frumin & Edelist), **31**: 243
prevention of accidental breathing of anoxic gas mixtures during anesthesia (Epstein & others), **23**: 1
Antagonists: see also under Morphine
narcotic, and narcotic mixtures (review) (Telford & Keats), **22**: 465
Anti-analgesia: see under Pain
Anti-arrhythmic agents: see also Arrhythmias
potency of dehydrobenzperiodol (Long & others), **28**: 318
Anticholinesterases
effects on neuromuscular refractory period (Epstein & others), **31**: 69
reversibility of tachyphylaxis to decamethonium by (Freund), **30**: 7
Antidiuretic Hormone
postoperative hyponatremia with inappropriate release of (Deutsch & others), **27**: 250
Antimetics: see also under names of specific drugs; Nausea; Vomiting
preoperative use of (editorial), **21**: 213
Antiforming agent (ethyl alcohol), effect on pulmonary sufactant (Modell & others), **30**: 164
Antihistamines
therapy for postintubation subglottic edema in infants and children (Deming & Oech), **22**: 933
Anton, A. H., Gravenstein, J. S., and Wheat M. W., Jr., Extracorporeal circulation and endogenous epinephrine and norepinephrine in plasma, atrium, and urine in man. A comparison of ether and halothane anesthesia, **25**: 262
Aorta
rabbit strips, effects of general anesthetics on contractile responses (Price & Price), **23**: 16
resection of, coarction under halothane anesthesia, increased incidence of paradoxical hypertension following (abstract), **22**: 132
Aortic-valve replacement, myocardial metabolism in patients having (Moffitt & others), **31**: 310
Apnea
apneic oxygenation in adrenalectomized dogs (Millar & Morris), **22**: 433
doxopram test, new technique for differential diagnosis of (abstract), **26**: 265
effect of mechanical stimulation of lower airway on respiratory mechanics in apneic anesthetized man (Don & Robson), **27**: 284
effect on arterial oxygen saturation (Downes & gas composition on rate of fall of oxygen saturation during (abstract), **22**: 128
effect on arterial oxygen saturation (Downes & others), **22**: 29
effects on blood acid-base parameters (current comment), **24**: 118
from hyperventilation, oxygen and carbon dioxide tensions as factors in respiration after (Sugioka & others), **23**: 776
induced, oxygenation prior to (Fujimori & Virtue), **21**: 46
mechanics of respiration in apneic anesthetized infants (Reynolds & Etsten), **27**: 13
oxygenation, effects of THAM on cerebrospinal fluid pressure during (abstract), **21**: 105
oxygenation: polarographic arterial tension study (Heller & others), **25**: 25
prolonged, following succinylcholine administration in cancer patients receiving AB-132 (abstract), **24**: 142 (Wang & Ross), **24**: 363
prolonged, from succinycholine, relation to plasma cholinesterase (Foldes & others), **24**: 208
rate of rise of P_{ACO_2} in apneic anesthetized patient (Eger & Severinghaus), **22**: 419
Apparatus and equipment
acoustic switch for use in constant monitoring (clinical workshop), **29**: 1052
adaptation of Ambu respirator for high oxygen concentration (current comment), **24**: 877
adaptation of "DePuy" abduction bar and clamp (current comment), **24**: 117
adaptation of ventimeter (current comment), **22**: 123
aerosolization of drugs during inhalation anesthesia (current comment), **25**: 239
aid during tonsillectomy (current comment), **27**: 694
aid for blind naso-endotracheal intubation (current comment), **27**: 93
aids for intravenous medication (current comment), **24**: 116
Air-Shields ventimeter ventilator, safety modification (current comment), **26**: 361
alarm device for respirators (current comment), **22**: 640
alarm, pressure-sensitive ventilator (current comment), **26**: 359

XUM

algometer (clinical workshop), **29**: 594
anesthesia machines, design for oxygen security (editorial), (Epstein), **31**: 299
anesthesia machines, design for safety in use of nitrous oxide (technical notes) (Matteo & others), **31**: 361
anesthesia machines, valve for safe discharge of anesthetic gases (clinical workshop), **31**: 371
anesthetic machine for small mammals (current comment), **28**: 217
arrangement of accessory equipment (current comment), **21**: 86
assessment of Revell circulator (Roffey & others), **22**: 583
atomizer, self-powered (clinical workshop), **28**: 625
attachment for Drinker-type respirators (current comment), **24**: 115
audiovisual demonstration of fetal heart beat (abstract), **21**: 106
automated blood pressure monitoring during surgical anesthesia (current comment), **27**: 861
automatic nonrebreathing valve of new design (current comment), **26**: 232
automatic valve (current comment), **21**: 87
auxiliary blood pump unit (current comment), **22**: 843
Beck-Rand compression machine (current comment), **24**: 586
Bennett tracheostomy circle, safety modification of (current comment), **26**: 830
blankets, warming, burns caused by (clinical workshop), **29**: 149
Block-Aid monitor, electromechanical response to stimulation by (Epstein & others), **30**: 43
Block-Aid monitor in nerve blocks (clinical workshop), **30**: 236
Block-Aid monitor, technical note concerning (clinical workshop), **29**: 1210
Block-Aid Monitor, use in nerve blocks (clinical workshop), **31**: 290
blood volume, detection of changes in (Underwood & others), **28**: 426
blood warmer (current comment), **25**: 724
breathing tubes, bailing device for removing condensate from (clinical workshop), **28**: 951
breathing tube(s) defect in (current comment), **28**: 471
buccal mask (current comment), **25**: 399
calibrating device for temperature recording (current comment), **26**: 110
cannula, cricothyrotomy (clinical workshop), **28**: 943
Cannula for arterial cannulation (clinical workshop), **31**: 289
cannula for tracheal spray (current comment), **25**: 86
carbon dioxide generator (current comment), **23**: 132
carbon dioxide response, bedside measurement of (clinical workshop), **28**: 624
cardiac arrest board (current comment), **22**: 1018
cardiac monitors (current comment), **21**: 326
cardiotape recording system (clinical workshop), **29**: 842
cardiovascular monitor (current comment), **22**: 123
catheters, suction, with side arms (Saklad & Paliotta), **28**: 652
catheter(s), venous, placement in peripheral vein (clinical workshop), **28**: 1093
chin holder (current comment), **22**: 642
circle absorption systems, design of, economy in (editorial) (Rendell-Baker), **29**: 5
circle absorption systems, designs of, economy of different types compared (Eger & Ethans), **29**: 93
circle system, semiclosed, control of $Paco_2$ in (abstract), **29**: 174
circulator, Venturi (clinical workshop), **29**: 838
clamp for holding suction tip and hose (current comment), **25**: 572
clip-type syringe holder (current comment), **26**: 684
closed circuit anesthesia utilizing known increments of halothane (Hampton & Flickinger), **22**: 413
Cole tubes, dilatation of larynx with (clinical workshop), **31**: 378
computer, in analysis of anesthetic records (clinical workshop), **30**: 565
connector, endobronchial tube, new double-lumen (clinical workshop), **28**: 950
contamination of drug vials in anesthesia machines (clinical workshop), **30**: 465
continuous monitoring of respiration (current comment), **23**: 585
controlled ventilation in newborn (current comment), **24**: 871
copper kettle, serious explosion during cleaning of (letter to editor, clinical workshop), **29**: 386
cuffs, endotracheal, intermittently inflated (clinical workshop), **31**: 578
cuffs, inflatable on tracheostomy tubes, prestretching to reduce tracheal damage (clinical workshop), **31**: 462
cuffs, intratracheal, performance (clinical workshop), **31**: 275
cuffs, tracheostomy (abstract), **30**: 336
cuffs, tracheostomy tube, prestretching to reduce tracheal damage (clinical workshop), **31**: 462
defects in "simple" equipment (current comment), **28**: 471
densitometer, cuvette, modified (clinical workshop), **28**: 1101
design for nasopharyngeal airway (current comment), **22**: 498
device for artificial respiration (current comment), **22**: 495
device for emergency cricothyrotomy (current comment), **24**: 738
device for holding equipment (current comment), **23**: 131
device for immersion hypothermia (current comment), **23**: 395

device for nasotracheal intubation (current comment), **23**: 130
device for suction and oxygen administration (current comment), **24**: 876
direct arterial pressure measurement, simple method for (current comment), **27**: 93
disposal of carbon dioxide from devices used for inhalational anesthesia (review) (Adriani), **21**: 742
Doppler transducer for measuring blood pressure (clinical workshop), **31**: 86
dual purpose Y connector, new (current comment), **25**: 575
effective valve for inflating endotracheal tube cuff (current comment), **26**: 227
electrical, hazards of (review), **28**: 396
electrical shock hazards, checking for (clinical workshop), **29**: 1046
electrocardiogram recording system (clinical workshop), **29**: 842
electrodes and electrode holders, electronarcosis by combination of direct and alternating current (Smith & Cullen), **23**: 682
electrodes, pacemaker, causing fibrillation (clinical workshop), **29**: 845
electrode(s), used to measure blood O_2 content (clinical workshop), **28**: 773
electronarcosis induced with experimental (translation), **21**: 215
electrostatic indicator (current comment), **21**: 83
endotracheal-cuff air valve (current comment), **26**: 112
endotracheal cuff arrangement to facilitate topical anesthetization (current comment), **25**: 721
endotracheal spray for relief of bronchospasm (current comment), **27**: 860
endotracheal tube(s), modified disposable (current comment), **23**: 717
endotracheal tubes, modified, for bronchography in children (current comment), **26**: 831
endotracheal tube(s), pediatric, factors affecting size (clinical workshop), **28**: 779
endotracheal tube(s), plug (current comment), **21**: 776
endotracheal tubes, self-lubricated stylet for (letter to editor, clinical workshop), **29**: 385
endotracheal tubes, trans-endotracheal tube suction in simulated breathing patient (Saklad & Paliotta), **28**: 652
epidural needle (current comment), **22**: 1018
epiglottic elevator (current comment), **28**: 214
ether screen for pediatric anesthesia (current comment), **21**: 325
ether screen with chin holder (current comment), **25**: 571
exercise helmet for physiologic studies (clinical workshop), **31**: 375
exhalation tunnel for nonrebreathing techniques (current comment), **25**: 716
expedient for leaking cuff (current comment), **22**: 643
for administration of halothane (current comment), **22**: 1017
for inhalational anesthesia, disposal of carbon dioxide from (abstract), **23**: 148
for respiratory resuscitation (current comment), **24**: 739
frame, turning, Stryker with portable IPPB (clinical workshop), **28**: 626
functional residual capacity and dynamic lung compliance, method for measuring during anesthesia (Colgan & Whang), **28**: 559
fused monitor cable (clinical workshop), **31**: 91
gas chromatography in determination of mepivacaine in blood (Pratt & others), **28**: 432
gas chromatography in measurement of inhalation anesthetics in blood and tissues, direct injection method (Yokota & others), **28**: 1064
gas sterilization of anesthetic equipment (current comment), **27**: 95
gas trap to minimize chronic exposure to anesthetic gases (clinical workshop), **31**: 464
halothane analyzer (current comment), **23**: 391
halothane meter, Hook and Tucker, appraisal of (clinical workshop), **29**: 157
hazards of anesthetic (Eger & Epstein), **25**: 490
helium meter, use in measuring functional residual capacity during anesthesia (Colgan & Whang), **28**: 559
holder for blood pressure manometer (current comment), **23**: 269
holder for epidural needle (current comment), **23**: 880
how to make laryngoscope work (current comment), **26**: 576
humidifying the Air-Shields respirator (current comment), **26**: 573
hypodermic needle with silicone rubber-occluded tip (Folkman & others), **29**: 419
hypothermia, inexpensive device for (current comment), **25**: 85
image intensifier, use in production of permanent nerve block (clinical workshop), **29**: 600
"inboard" mounting for Jefferson ventilator (current comment), **21**: 435
inexpensive system for administration of ether (current comment), **22**: 323
infant anesthesia set (current comment), **21**: 776
infant mask for collection of respiratory samples (current comment), **23**: 876
infant pulmonator, adaptation of (current comment), **25**: 574
inhalation anesthetic equipment, standardization (clinical workshop), **30**: 112
inhaler, Cyprane, methoxyflurane concentrations from (clinical workshop), **28**: 770
intermittent-anesthesia administration set (current comment), **23**: 877
intermittent positive pressure respirator (current comment), **21**: 220
intermittent vacuum regulator (current comment), **21**: 773

XUM

intrathecal block, positioning guide for (clinical workshop), **28**: 627
intravenous infusion set, improved (letter to editor, clinical workshop), **29**: 385
intravenous set (current comment), **24**: 878
introducer for Cheng epidural needle (current comment), **24**: 739
IPPB, portable, with Stryker Frame (clinical workshop), **28**: 626
Isolette, lever-arm to prevent accidental extubation of infant in (letter to editor, clinical workshop), **29**: 1062
laryngoscope blade to facilitate endotracheal intubation (clinical workshop), **31**: 377
laryngoscopy, epiglottic elevator (current comment), **28**: 214
leg holder, Zollinger, used to position psychiatric patients for spinal and epidural anesthesia (current comment), **28**: 464
litter mount, Air Evac, with Stryker frame (clinical workshop), **28**: 626
Luer-Lok adaptor, improved ECG (current comment), **24**: 588
mask, anesthetic (clinical workshop), **30**: 244
mask, new (current comment), **26**: 111
measurement of spontaneous ventilation with Engstrom respirator (current comment), **24**: 880
mechanical ventilation of infant (current comment), **27**: 692
membrane mounting aid for Beckman Po_2 electrodes (current comment), **26**: 685
micromethods in neuropharmacology (Salmoiraghi & Weight), **28**: 54
modification of Crowne-Davis mouth gag (current comment), **22**: 494, **24**: 740
modification of laryngoscope blade (current comment), **23**: 394
modified endotracheal catheter (current comment), **22**: 319
modified endotracheal tube cuff (current comment), **21**: 775
modified head for standard intravenous pole (current comment), **25**: 715
modified laryngeal cannula (current comment), **27**: 197
modified laryngscope blade (current comment), **22**: 846
modified Moerch piston respirator (current comment), **25**: 81
modified nonrebreathing system (current comment), **25**: 236
modified tongue blade for adenotonsillectomy (current comment), **24**: 590
modified tracheostomy tube (current comment), **21**: 567
monitor for cable, fused (clinical workshop,) **31**: 91
monitoring system, acoustic switch for (clinical workshop), **29**: 1052
mouth prop holder for tonsillectomy (current comment), **25**: 569
multipurpose syringe and manometer holder (current comment), **24**: 397
muscle-twitch monitor (clinical workshop), **31**: 466
nasal catheter and nasal cannula compared (clinical workshop), **31**: 376
nasogastric tube, insertion before gastroesophageal reflux and spontaneous esophageal rupture (clinical workshop), **28**: 782
nasotracheal tubes used in infants, resistance of (clinical workshop), **29**: 588
nebulization during anesthesia (current comment), **26**: 116
nebulizer, convenient and accurate (clinical workshop), **28**: 1102
nebulizer for anesthetic system (current comment), **23**: 583
nebulizer, ultrasonic, effects of aerosols on man (Cheney & Butler), **29**: 1099
needle for controlled spinal drainage, new (current comment), **25**: 242
needle, "immobile," for nerve blocks (clinical workshop), **31**: 577
needle, 32-gauge, in spinal anesthesia (Frumin), **30**: 599
nerve stimulator (current comment), **27**: 511
nerve stimulator for continuous monitoring of muscle relaxant action (current comment), **26**: 832
nerve stimulator, for isolated block of nerves in spasticity (current comment), **28**: 219
neuromuscular blockade, technique for evaluating in man (current comment), **28**: 215
new ether hook (current comment), **22**: 322
nitrous oxide and low inflow circle systems (Smith), **27**: 266
nitrous oxide-oxygen "flush" system (current comment), **23**: 129
nonrebreathing assembly (current comment), **26**: 229
nonrebreathing system, silica-gel trap system for dehumidification of expired gases (clinical workshop), **29**: 371
numerical indication of indirect systolic and diastolic blood pressures, heart and respiratory rate (current comment), **25**: 861
Ohio halothane vaporizer, overdose with (current comment), **23**: 715
oro-endotracheal tube brace for infants (clinical workshop), **30**: 333
plastic intravenous cannula, new (current comment), **25**: 570
pneumatic monitor for arterial blood pressure (current comment), **24**: 872
"pop-off" valve (current comment), **22**: 848
pop-off valve, new (current comment), **25**: 240
portable intermittent positive pressure breathing apparatus (current comment), **27**: 508
portable peripheral nerve-stimulator (current comment), **26**: 224
portable unit for Fluothane-air anesthesia ("PUFFA") (current comment), **21**: 768

XUM

positioning prone patient, device for (current comment), **25**: 87
positive pressure respirator (current comment), **22**: 121
precordial electrocardiograph stethoscope (current comment), **26**: 228
pressure algesimetry, device for (clinical workshop), **29**: 594
pulmonary ventilator for infants (current comment), **25**: 712
Pulmonet, Godart, in measuring functional residual capacity during anesthesia (Colgan & Whang), **28**: 559
radiation protection (current comment), **22**: 1019
rebreathing in pediatric anesthesia system (abstract), **28**: 241
rebreathing tube evaluation of for preventing atelectasis (current comment), **28**: 211
rebreathing valve, automatic (clinical workshop), **31**: 84
respirator: see also under Apparatus and equipment, ventilator
respirator, Engström, sighing during anesthesia (clinical workshop), **29**: 148
respirators, pressure-cycled, effects of varying pressure and flow rate settings (clinical workshop), **28**: 1096
respirators, selection of (editorial), (Singer), **28**: 485
respiratory apparatus mixing chamber (laboratory notes) (Smith), **29**: 1037
respiratory monitor for infants (current comment), **21**: 774
respiratory resuscitation (current comment), **25** 858
resuscitator, Elder demand valve (clinical workshop), **28**: 623
rotator, gas–liquid equilibrating, for simultaneous solubility or content measurements (clinical workshop), **31**: 465
safe transfusion (review) (Walter & Button), **27**: 439
Scholander apparatus, analysis of oxygen, carbon dioxide and nitrous oxide mixtures with (Forbes & others), **28**: 928
semiclosed system (Magill circuit), fresh gas economics of (Kain & Nunn), **29**: 964
shock hazards, checking for (clinical workshop), **29**: 1046
shock hazards in hospitals (symposium article) (Hopps), **31**: 142
shoes, conductive (clinical workshop), **28**: 954
shoe-tester unlocks door (current comment), **26**: 572
shunt, arteriovenous, silicone rubber (Folkman & others), **29**: 410
sighing device, automatic (current comment), **26**: 575
silica-gel trap system for dehumidification of expired gases in a nonrebreathing system (clinical workshop), **29**: 371
simple esophageal stethoscope (current comment), **22**: 642
simplified, for IPPB/aerosol therapy (current comment), **26**: 362
small volume suction apparatus (current comment), **25**: 400
spirometer, EHN, modified for oxygen consumption (clinical workshop), **29**: 1226
spirometry for measurement of oxygen consumption during halothane anesthesia (laboratory methods) (Theye & Messick), **29**: 361
square-wave electrical anesthesia current generator (current comment), **25**: 718
stationary ECG hook-up (current comment), **27**: 696
stethoscope approximator (letter to the editor of clinical workshop), **30**: 334
stylet, self-lubricated for endotracheal tubes (letter to editor, clinical workshop), **29**: 385
suction device, portable clinical (clinical workshop), **29**: 1217
swivel-joint (current comment), **23**: 715
SYM tourniquet (current comment), **25**: 573
syringe with self-retaining plunger (current comment), **22**: 319
system for administration of thiopental (current comment), **21**: 566
television in hospitals (symposium article) (Merrill & Litke), **31**: 156
thermometer for K-pad (current comment), **27**: 863
timer, Apgar (letter to editor, clinical workshop), **29**: 1231
three-way connector with unidirectional valve, new (current comment), **25**: 717
thumb adduction, means of recording force (clinical workshop), **29**: 1054
tongue blade modification for endotracheal anesthesia (current comment), **25**: 723
tracheostomy cannula for speaking during artificial respiration (current comment), **25**: 719
tracheostomy tubes, cuffed tracheoesophageal fistulas following use (clinical workshop), **31**: 281
transducer holder, simplified (current comment), **28**: 213
transfusion pump (current comment), **23**: 395
tubing, plastic, position in continuous-block techniques (clinical workshop), **29**: 1047
Tuohy needle (current comment), **21**: 87
ultrasonic conversion of Emerson PV3 respirator (current comment), **27**: 866
universal adapter for endotracheal tubes (current comment), **25**: 727
universal breathing tube support (current comment), **22**: 844
ureteral catheter, disposable, for epidural anesthesia (current comment), **26**: 116
valve: see also Apparatus and equipment, rebreathing valve
valve, circle, pediatric (clinical workshop), **29**: 833
valve, Columbia pediatric circle for respiratory studies in the neonate (clinical workshop), **30**: 330

XUM

valve for assisted or controlled ventilation (current comment), **21**: 83
valve for cuff inflation (letter to editor, clinical workshop), **29**: 1230
valve, non-return for Emerson postoperative ventilator (clinical workshop), **29**: 828
valves, crossed, hazard (correspondence) (Rendell-Baker), **31**: 194
vaporizer for volatile agents (current comment), **22**: 1014
vaporizer in accidental delivery of liquid halothane (clinical workshop), **30**: 246
venous pressure manometer, inexpensive (current comment), **25**: 726
ventilator: see also under Apparatus and equipment, respirator
ventilator, Bird, inspired oxygen concentration delivered by (current comment), **28**: 453
ventilator, Bird Mark 2, modification (clinical workshop), **29**: 1056
ventilator, Emerson postoperative (letter to editor, clinical workshop), **29**: 849
ventilator, Emerson postoperative, compression volume in mechanical ventilation of infants (technical note) (Haddad & Richards), **29**: 365
ventilator, Emerson postoperative, hyperthermia while using (clinical workshop), **28**: 1106
ventilator, Emerson postoperative, non-return valve for (clinical workshop), **29**: 828
ventilator, Emerson postoperative, prevention of hyperthermia caused by (clinical workshop), **29**: 1220
ventilator for infants (clinical workshop), **29**: 591
ventilator, mechanical, new (clinical workshop), **28**: 952
ventilator, mouth-to-mask, for concurrent artificial ventilation and cardiac massage by the same individual (clinical workshop), **29**: 841
ventilators, bailing device for removal of condensate from breathing tubes (clinical workshop), **28**: 951
ventilators, effects of constant chest compression on performance (Amaha & others), **28**: 498
ventilators, functional characteristics of (Saklad & Wickliff), **28**: 716
ventilators, nomogram for correction of needed gases during use (clinical workshop), **29**: 150
ventilators, physical properties in inspiratory phase (technical study) (Peslin), **30**: 315
ventilometer, simple (current comment), **26**: 113
ventimeter, continuous recording (current comment), **23**: 582
vials, multi-dose, drug contamination in (abstract), **28**: 628
vinyl tubing (current comment), **22**: 849
V-tube for manual assisted ventilation (current comment), 25: 859
warning system for piston-type respirator (current comment), **27**: 509
"Y"-piece adaptor (current comment), **23**: 717
Aramine: see Metaraminol
Aramine Bitartrate: see Metaraminol
Arfonad: see Trimethaphan Camphorsulfonate
ARIMURA, A., see OYAMA, T., jt. auth.
Arrhythmias: see also Heart; Ventricular Tachycardia
and negative airway pressure (letter to editor, clinical workshop), **29**: 1063
antiarrhythmic action of N, N-bis (phenylcarbamoylmethyl) dimethyl ammonium chloride (QX-572) in cat and dog (Katz), **25**: 291
anti-arrhythmic agent (dehydrobenzperidol) (Long & others), **28**: 318
antiarrhythmic and cardiovascular effects on synthetic oxytocin (Katz), **25**: 653
antiarrhythmic properties of stereoisomers of a beta-adrenergic blocking agent (H56/28) (Lord & others), **29**: 288
associated with succinylcholine in a patient with pheochromocytoma (clinical workshop), **29**: 1228
cardiac, sympathomimetic amines and methylxanthines inducing (Ueda & others), **22**: 926
catecholamine-induced, during halothane anesthesia (Andersen & Johansen), **24**: 51
cyclopropane–carbon dioxide arrhythmic threshold in patients with cardiovascular disease (Strong & others), **29**: 295
cyclopropane-catecholamine, effects of atropine and scopolamine on (Katz), **26**: 289
cyclopropane-epinephrine, in dogs, mephentermine and (Elliott), **23**: 762
effects of vagolytic drugs on ventricular arrhythmias during cyclopropane anesthesia (abstract), **26**: 264
fetal, during caudal block with prilocaine (current comment), **28**: 222
idionodal rhythm, treatment with minimal bicarbonate (current comment), **28**: 226
induced by negative phase in artificial ventilation (clinical workshop), **29**: 382
postoperative (review) (Buckley & Jackson), **22**: 723
succinyldicholine-induced (Schoenstadt & Whitcher), **24**: 358
ventricular, prevention and correction of, by dichloroisoproterenol in dogs anesthetized with cyclopropane (Schull & others), **22**: 444
Arterial-mixed venous blood oxygen content difference during anesthesia (Yamamura & others), **30**: 406
Arterial-mixed venous blood oxygen content difference during anesthesia (Yamamura & others), **30**: 406
Artery: see also under Blood; Cardiovascular System
forearm responses to halothane and cyclopropane (Caffrey & others), **26**: 778
Arthritis
cricoarytenoid, laryngeal obstruction due to (current comment), **27**: 518
Artificial Respiration: see Resuscitation
ARTUSIO, J. F., JR., Carbon monoxide accumulation (correspondence), **27**: 332

——, (with TIERS, F. M.), A quantitative study of *d*-tubocurarine in man during diethyl ether analgesia, **21**: 256
——, VAN POZNAK, A., HUNT, R. E., TIERS, F. M., and ALEXANDER, M., A clinical evaluation of methoxyflurane in man, **21**: 512
——, see MIDDLETON, V., jt. auth.
A.S.A. Workshop on Teaching (report of meeting), **28**: 1112
Asepsis: see also Sterilization
for inhalational therapy (review) (Kundsin & Walter), **23**: 507
ASKROG, V. F., PENDER, J. W., and ECKENHOFF, J. E., Changes in physiological dead space during deliberate hypotension, **25**: 744
——, PENDER, J. W., SMITH, T. C., and ECKENHOFF, J. E., Changes in respiratory dead space during halothane, cyclopropane, and nitrous oxide anesthesia, **25**: 342
ASLING, J. H., SHNIDER, S. M., WILKINSON, G. R., and WAY, E. L., Gas chromatographic determination of mepivacaine in capillary blood (laboratory methods), **31**: 458
Asphyxia
respiration and muscle relaxants, effect on cardiac output in dog (Opdyke & others), **21**: 244
Aspiration: see also Drowning
chemical penumonitis of, evaluation of treatment (Lewinski), **26**: 37
effects of aspiration in near-drowning (Modell & others), **29**: 456
of gastric juice—physiologic alterations (abstract), **26**: 241
pneumonitis, therapeutic aspects of, in experimental animals (Bannister & others), **22**: 440
postoperative complications (review) (Hamilton), **22**: 708
and vomiting during anesthesia (review) (Bannister & Sattilaro), **23**: 251; (current comment), **23**: 718
Association of University Anesthetists (report of meeting), **28**: 955; (Hornbein), **29**: 1074
Asthma
anesthesia and (abstract), **23**: 149
anesthesia for asthmatic patient (Shnider & Papper), **22**: 886
arterial blood gas and acid-base derangements in children with (abstract), **26**: 245
Asthmatics
pulmonary mechanics and blood gas tensions during anesthesia in (abstract), **27**: 216
Atarax: see Hydroxyzine
Ataraxics: see also specific compounds
in preanesthetic medication (Lear & others), **22**: 529
Atelectasis: see also under Lung
and pneumothorax: effect on lung function and shunting (Colgan & others), **29**: 923
and pulmonary surfactant (Sutnick & Soloff), **25**: 676
and shunting (editorial), **25**: 595
and shunting during spontaneous ventilation in anesthetized patients (Bendixen & others), **25**: 297
anesthesia and (Cohen & Whang), **29**: 917
anesthesia and (editorial) (Finley), **29**: 863
following tracheal suction in infants (clinical workshop), **31**: 468
postoperative complications (review) (Hamilton), **22**: 708
relation of postoperative, to solubility of gas filling lungs at termination of anesthesia (Stevens & others), **27**: 163
ATIK, M. Dextrans, their use in surgery and medicine. With emphasis on the low molecular weight fractions (review), **27**: 425
ATKINSON, R. S., Trichlorethylene anesthesia (Review), **21**: 67
Atria: see under Heart
Atropine
cardiovascular effects (Fielder & others), **30**: 637
comparison of various drug combinations as pediatric preanesthetic medication (Eger & others), **22**: 962
comparison with retrobulbar block, prevention of oculo-cardiac reflex in children (Taylor & others), **24**: 646
effect of postural variations on anatomic dead space before and after (abstract), **27**: 224
effect on circulatory responses to endotracheal intubation in light general anesthesia (DeVault & others), **21**: 360
effect on heart rate (Gravenstein & Perkins), **27**: 298
effect on respiration and gas exchange (Smith & others), **28**: 883
effects of, on mechanics of respiratory system during anesthesia (Don & Robson), **26**: 168
effects on cardiac rhythm in conscious and anesthetized man (Jones & others), **22**: 67
effects on cardiovascular system (Gravenstein & others), **25**: 123
effects on cardiovascular system (List & Gravenstein), **26**: 299
effects on fetal responses to maternal hemorrhage and subsequent vasopressor administration (abstract), **27**: 208
intravenous, effects during cyclopropane-succinylcholine anesthesia (Colón-Yordán & Jiménez-Vélez), **23**: 333
parasympathomimetic activity (Kottmeier & Gravenstein), **29**: 1125
scopolamine and related compounds (review) (Eger), **23**: 365
Atropine methylbromide
parasympathomimetic activity (Kottmeier & Gravenstein), **29**: 1125
ATTAS, M., SABAWALA, P. B., and KEATS, A. S., Acute transient sialadenopathy during induction of anesthesia (clinical workshop), **29**: 1050
Audiovisual
demonstration of fetal heart beat (abstract), **21**: 106

XUM

AUKBERG, S., see MARSHALL, B. E., jt. auth.
AULD, P. A. M., see DAVENPORT, H. T., jt. auth.
AUSTEN, G., see REIN, J., jt. auth.
AUSTIN, W. H., and VILLANDRY, P. J., Methoxyflurane and renal function (correspondence), **28**: 637
Australian Society of Anaesthetists (report of meeting) (Eckenhoff), **30**: 580
Autoclaving: see also under Sterilization
multiple, of commercial local anesthetic solutions containing dilute epinephrine (current comment), **24**: 582
stability of local anesthetics after, determined by gas chromatography (Katz), **27**: 835
Autonomic nervous system: see under Nervous system
Audoradiography
low-temperature, in studies of chloroform uptake and metabolism in the mouse (Cohen & Hood), **30**: 306
low-temperature, in studies of diethyl ether uptake and metabolism in the mouse (Cohen & Hood), **31**: 61
low-temperature, in studies of halothane uptake and metabolism in the mouse (Cohen & Hood), **31**: 553
whole-body, use for determination of radioactively labeled drugs in the rat (Cohen & others), **29**: 987
AVERBOOK, B. D., see LORHAN, P. H., jt. auth.
AVERY, M. E., and NORMAND, C., Respiratory physiology in the newborn infant (review), **26**: 510
——, see DE LEMOS, R., jt. auth.
AVIADO, D. M. Connecting links to solve discrepancies of actions of pressor drugs (editorial), **24**: 763
Axillary Block: see under Anesthesia
Azeotrope: see under Halothane; Diethyl Ether

B

BABAD, A. A., and EGER, E. I., II, the effects of hyperthyroidism and hypothyroidism on halothane and oxygen requirements in dogs, **29**: 1087
——, see EGER, E. I., II, jt. auth.
——, see MUNSON, E. S., jt. auth.
——, see SAIDMAN, L. J., jt. auth.
BACHMAN, L., see FREEMAN, A., jt. auth.
——, see LONG, G., jt. auth.
——, see NICODEMUS, H. F., jt. auth.
——, see NIGHTINGALE, D. A., jt. auth.
Back
flexed, and post-lumbar puncture headache (current comment), **25**: 80
Bacteria
culture of indwelling epidural catheters (Barreto), **23**: 643
in hospitals, control by ventilation and air conditioning (symposium article) (Walter), **31**: 186
Bacterial contamination of drug vials in anesthesia machines (clinical workshop), **30**: 465
BADOLA, R. P., see BRUNNER, E. A., jt. auth.
BAEZ, S., and ORKIN, L. R., Effects of anesthetics on the response of the microcirculation to circulating humors (review), **24**: 568
BAGDI, P. A., see BRIDENBAUGH, L. D., jt. auth.
——, see MOORE, D. C., jt. auth. (2)
Bags: see under Apparatus and Instruments
BAGWELL, E. E., and WOODS, E. F., Cardiovascular effects of methoxyflurane, **23**: 51
——, WOODS, E. F., and DURST, G. G., JR., Influence of reserpine on cardiovascular and sympathoadrenal responses to cyclopropane anesthesia in dog, **25**: 148
——, WOODS, E. F., and GADSDEN, R. H., Blood levels and cardiovascular dynamics during methoxyflurane inhalation in dogs, **23**: 243
——, WOODS, E. F., and LINKER, R. P., Influence of reserpine on cardiovascular and sympathoadrenal responses to ether anesthesia in the dog, **25**: 15
——, see GADSDEN, R. H., jt. auth.
BAILEY, G., see BASTRON, R. D., jt. auth.
BAILEY, R. J., see TORDA, T. A. G., jt. auth.
BAKER, L. R., Nonrebreathing assembly (current comment), **26**, 229
BAKKEN, E. E., see KNUTSON, R. C., jt. auth.
BALDWIN, M., see GALINDO, A., jt. auth.
BALLINGER, C. M., see UEDA, I., jt. auth.
BAMFORTH, B. J., SIEBECKER, K. L., KRAEMER, R., and ORTH, O. S., Effect of epinephrine on the dog heart during methoxyflurane anesthesia, **22**: 169
——, SIEBECKER, K. L.; STEINHAUS, J. E., and ORTH, O. S., A clinical comparison of chloroform and halothane by a blind study technique, **21**: 273
——, see SIEBECKER, K. L., jt. auth.
BANAS, J. S., JR. see DALEN, J. E., jt. auth.
BANE, H. N., see VIRTUE, R. W., jt. auth.
BANERJEE, C. M., see SANCHEZ-SALAZAR, A. A., jt. auth.
BANNER, M. P., see STEPHEN, G. W., jt. auth.
BANNISTER, W. K., and SATTILARO, A. J., Vomiting and aspiration during anesthesia (review), **23**: 251
——, SATTILARO, A. J., and OTIS, R. D., Therapeutic aspects of aspiration pneumonitis in experimental animals, **22**: 440
BARACH, A. L., Historical background of inhalational therapy (review), **23**: 407
——, Inhalational therapy, advances and retreats, **22**: 367
BARATZ, R. A., and KARIS, J. H., Blood gas studies during laparoscopy under general anesthesia (clinical workshop), **30**: 463
BARBAROSH, H., see KRASNOW, N., jt. auth.
BARBEE, W. H., A modified tongue blade for adenotonsillectomy (current comment), **24**: 590
——, see PLOSS, R. E., jt. auth.
BARBER, J. L., see FLETCHER, G., jt. auth.

Barbiturates: see also Methohexital Sodium; Preanesthetic Medication; under names of specific compounds
abstinence syndrome (case report) (current comment), **25**: 403
anesthetic studies with thiohexital (Mark & others), **29**: 1159
chromatographic (gas) analysis of serum levels, metabolic breakdown of thiopental determined by (Furano & Greene), **24**: 796
combined with local anesthetics (editorial) (Adriani), **29**: 405
depression of oxygen uptake in cell culture by (Fink & others), **30**: 150
effects of, on skeletal muscle function (Borgman & others), **21**: 150
poisoning, analeptics outmoded therapy of (editorial), **23**: 713
prenarcotic doses in localizing diseased brain tissue (medical intelligence) (Brazier), **31**: 78
respiratory depression in sedated bronchitic patients (Gold & others), **30**: 492
Barnes, A. M., see Sweigert, R. L., jt. auth.
Baroreceptor reflex control of heart rate, anesthesia effects on (Bristow & others), **31**: 422
Barostatic reflexes: see under Nervous system
Barreto, R. S., Bacteriological culture of indwelling epidural catheters, **23**: 643
——, Effect of intravenously administered succinylcholine upon cardiac rate and rhythm, **21**: 401
Barry, K. G., see Mazze, R. I., jt. auth.
Barsocchi, A. T., see Wamser, C. A., jt. auth.
Bartelstone, H. J., Katz, R. L., and Ngai, S. H., Effect of cyclopropane on reflexly induced circulatory responses in the dog, **27**: 756
——, see Epstein, R. A., jt. auth.
——, see Wang, H., jt. auth.
Bartholomay, A. F., Technology, medicine and man (editorial), **27**: 1
Bartter, F. C., see Mason, D. T., jt. auth.
Basford, A. B., and Fink, B. R., The teratogenicity of halothane in the rat, **29**: 1167
Bastron, R. D., Bailey, G. Deutsch, S., and Vandam, L. D., Anesthesia for patients with chronic renal failure for renal homotransplantation (abstract), **30**: 335
Battenberg, J. D., A membrane mounting aid for use with Beckman Po_2 electrodes (current comment), **26**: 685
Battig, C. G., Checking for electrical shock hazards (clinical workshop), **29**: 1046
Bauer, R. O., see Weisman, H., jt. auth.
——, see Winters, W. D., jt. auth.
Baum, G. L., see Llamas, R., jt. auth.
Bauman, J., and Fletcher, G., Safety modification of the Bennett tracheostomy circle (current comment), **26**: 830
——, see Gunther, R. E., jt. auth.
Bearden, C. R., see Lorhan, P. H., jt. auth.
Bearman, A. J., (current comment), **23**: 130
Beck, G. P., Anterior approach to sciatic nerve block, **24**: 222
Beck-Rand Compression Machine (current comment), **24**: 586
Beckwitt, H. J., see Lund, L. O., jt. auth.
Becsey, L. S., and Orkin, L. R., The permeability of the open drop mask (current comment), **25**: 711
Beecher, H. K., Anesthetist as investigator, **25**: 445
——, More on patient consent (correspondence), **29**: 602
——, Oliver Wendell Holmes and anesthesia (correspondence), **29**: 1068
Behar, M. G., and Alexander, S. G., *In vitro* effects of inhalational anesthesia on viscosity of human blood, **27**: 567
——, see Alexander, S. C., jt. auth.
——, see Cohen, P. J., jt. auth.
——, see Forbes, A. M., jt. auth.
——, see Price, H. L., jt. auth.
——, see Wollman, H., jt. auth.
Behavior: see also under Visually Evoked Responses
operant, during anesthesia recovery, continuous and objective method (Lindsley & others), **22**: 937
patient, evaluation of analgesics by rating (Steinhaus & others), **25**: 64
Belin, R. P., and Karleen, C. I., Cardiac arrest in the burned patient following succinyldicholine administration (current comment), **27**: 516
Bell, F. K., see Ling, A. S. C., jt. auth.
Belleau, C. D., see Le Tard, F., jt. auth.
Bellville, J. W., (current comment), **23**: 398
——, Postanesthetic nausea and vomiting (review), **22**: 773
——, Bross, I. D. J., and Howland, W. S., Postoperative nausea and vomiting IV: factors related to postoperative nausea and vomiting, **21**: 186
——, Escarraga, L. A., Wallenstein, S. L., Houde, R. W., and Howland, W. S., Relative respiratory depressant effects of oxymorphone (Numorphan) and morphine, **21**: 397
——, and Hara, H. H., Use of analog computers in anesthetic research (review), **27**: 70
——, (with Howland, W. S., and Schweizer, O.). The recovery room: a clinical laboratory, **21**: 251
——, and Seed, J. C., The effect of drugs on the respiratory response to carbon dioxide (Review), **21**: 727
——, see Cohen, E. N., jt. auth.
——, see Forrest, W. H., Jr., jt. auth.
Bemegride (Megimide)
additive effects with methylphenidate (Gale), **22**: 210
Bendixen, H. H., Anesthesia for thoracic surgery (editorial), **28**: 649
——, Atelectasis and shunting (editorial), **25**: 595

XUM

——, Bullwinkel, B., Hedley-Whyte, J., and Laver, M. B., Atelectasis and shunting during spontaneous ventilation in anesthetized patients, **25**: 297
——, and Bunker, J. P., Measurement of inspiratory force in anesthetized dogs, **23**: 315
——, see Egbert, L. D., jt. auth.
——, see Hedley-Whyte, J., jt. auth.
——, see Slater, E. M., jt. auth.
——, see Suwa, K., jt. auth.
——, see Wescott, D. A., jt. auth.
Ben-Hur, N., see Gassner, S., jt. auth.
Bennett, A. E., How "Indian arrow poison" curare became a useful drug (history), **28**: 446
Bennett Tracheostomy Circle
safety modification of (current comment), **26**: 829
Benson, D. W., and Murphy, G. P., Urea induced serum hyperosmolality and the central nervous system, **22**: 24
——, see Graff, T. D., jt. auth.
——, see Greenfield, L. J., jt. auth.
Beran, A. V., see Misrahy, G. A., jt. auth.
Bergman, N. A., Components of the alveolar-arterial oxygen tension difference in anesthetized man, **28**: 517
——, Cyclic variations in blood oxygenation with the respiratory cycle, **22**: 900
——, Effect of hemorrhage on plasma thiopental concentrations, **24**: 813
——, Effects of varying respiratory waveforms on gas exchange, **28**: 390
——, Properties of passive exhalations in anesthetized subjects, **30**: 378
——, see Gerbershagen, H. U., jt. auth.
Berlin, A. M., see Woo, S. W., jt. auth.
Berman, R. A., (current comment), **22**: 498
Berman, R. A., Halothane and hepatic necrosis (current comment), **24**: 593
——, Turbin, J., and Jentile, K., Nonrebreathing respirator-controlled anesthesia utilizing methoxyflurane (current comment), **24**: 254
Bernstein, D. S., Hyperparathyroidism and hypoparathyroidism: preoperative and postoperative care (review), **24**: 448
Berry, F. A., and Eastwood, D. W., Serious defects in "simple" equipment (current comment), **28**: 471
Berry, G., see Schull, L. G., jt. auth.
Berry, P. R., and Pontoppidan, H., A non-return valve for continuous use with the Emerson postoperative ventilator (clinical workshop), **29**: 828
Bessman, S. P., see Helrich, M., jt. auth.
Beta-adrenergic blocking agents: see also specific agents
Beta-adrenergic blocking agent (H56/28), antiarrhythmic properties of (Lord & others), **29**: 288
clinical experience with (Krasnow & Barbarosh), **29**: 814
in treatment of cardiac arrhythmia (clinical workshop), **31**: 93
neuromuscular effects and interaction with skeletal muscle relaxants (Usubiaga), **29**: 484
Betcher, A. M., Let's set our sights (editorial), **23**: 710
——, Paul Meyer Wood, M. D., 1894–1963 (obituary), **24**: 612
——, The Wood Library-Museum of Anesthesiology (historical development of the Library-Museum), **22**: 618
Bethards, R., see Hamilton, W. K., jt. auth.
Bethune, R. W. M., Precordial electrocardiograph stethoscope (current comment), **26**: 228
Betts, H. B., see Khalili, A. A., jt. auth.
Bevan, W., see Steinhaus, J. E., jt. auth.
Bibbins, F., see Paradise, R. R., jt. auth.
Bicarbonate
plasma, effect of methoxyflurane-nitrous oxide anesthesia on (Dobkin & Song), **23**: 601
sodium, see sodium bicarbonate
Bickford, R. G., see Henrie, J. R., jt. auth.
Bidder, T. G., (current comment), **23**: 266
Binder, L. S., see Weitzner, S. W., jt. auth.
Biochemical aspects of anesthesia (editorial) (Greene), **29**: 407
Biochemistry
metabolism of drugs employed in anesthesia (Greene), **29**: 127; 327
Biology
role of carbon dioxide (review) (Goddard), **21**: 587
Bioluminescence
firefly luciferin, effects of diethyl ether and halothane on (Ueda), **26**: 603
Birch, A. A., A stationary ECG hook-up (current comment), **27**: 696
Birkhan, H. J., and Heifetz, M., "Uninflatable" inflatable cuffs (current comment), **26**: 578
Birth: see also under Delivery
changes in circulation at (review) (Dawes), **26**: 522
physiologic adjustments at, effects of labor, delivery and anesthesia on newborn (review) (James), **26**: 501
N, N-Bis (Phenylcarbamoylmethyl) Dimethyl Ammonium Chloride (QX-572)
antiarrhythmic action in cat and dog (Katz), **25**: 291
Biscoe, T. J., On understanding anesthetic effects on the sympathetic nervous system (editorial), **31**: 395
Bitte, E. M., see Moraca, P. P., jt. auth.
Bittrich, N. M., Kane, A. V'R., and Mosher, R. E., Methohexital and its effect on liver function tests, **24**: 81
Bizzarri, D., see Tsueda, K., jt. auth.
Black, M. H., see Phillips, O. C., jt. auth.
Blackburn, W. R., Ngai, S. H., and Lindenbaum, J., Morphologic changes in hepatic necrosis following halothane anesthesia in man, **25**: 270
Blackmore, W. P., Erwin, K. W., Wiegand, O. F., and Lipsey, R., Renal and cardiovascular effects of halothane, **21**: 489

Bladder
urinary, local hypothermia during transurethral surgery (Franks & Cockett), **22**: 15
Blaisdell, R. K., Red cell production and survival (review), **27**: 374
Blaskovics, J. B., see Winters, W. D., jt. auth.
Bleeding
comparison of effect of atropine and scopolamine on fetal responses to maternal hemorrhage and subsequent vasopressor administration (abstract), **27**: 208
controlled, in dogs, methoxyflurane and halothane anesthesia during (abstract), **27**: 207
Blindness
after lumbosacral fusion (current comment), **21**: 777
Blinks, J. R., On the measurement of myocardial contractibility (editorial), **28**: 800
Block, A. J., see de Lemos, R., jt. auth.
Block: see also under Anesthesia; Muscle; Nerve; specific agents and techniques
continuous intercostal (current comment), **25**: 237
dual, phase II, or desensitization? (Churchill-Davidson & Katz), **27**: 536
epidural: see under Epidural; Anesthesia
neuromuscular: see under Neuromuscular; Anesthesia
spinal: see under Spinal; Anesthesia
subarachnoid: see under Subarachnoid; Anesthesia
Block-Aid monitor: see under Apparatus and equipment
Blood: see also under Plasma
acid-base lesion of bank blood (abstract), **25**: 102
acid-base parameters, effects of apnea on (current comment), **24**: 118
acute hemodilution with plasma expanders (abstract), **26**: 261
analyses of halothane in, by gas chromatography (Rutledge & others), **24**: 862
arterial concentrations of halothane correlated with EEG patterns and clinical signs during anesthesia (abstract), **23**: 147
arterial gas and acid-base derangements in children with status asthmaticus (abstract), **26**: 245
arterial, levels of methoxyflurane in (Wolfson & others), **28**: 1003
arterial oxygen saturation, effect of apnea, suction and hyperventilation on (Downes & others), **22**: 29
arterial oxygen tension measurements during nitrous oxide-oxygen anesthesia (Slater & others), **26**: 642
arterial oxygenation during hypothermia (Hedley-Whyte & others), **26**: 595
arterial oxygenation during transition from 100 per cent oxygen to air breathing, polarographic study (Heller & Watson), **22**: 385; (correction), **22**: 854
arterial *p*H, oxygen saturation, Pa_{CO_2} and plasma bicarbonate, effect of methoxyflurane-nitrous oxide anesthesia (Dobkin & Song), **23**: 601
bleeding volume variations, effects of halothane, ether and thiopental in dogs (Marcus & others), **23**: 671
carotid flow in dogs with closed chest cardiac massage, drug effects on (abstract), **27**: 212
cerebral circulation during general anesthesia and hyperventilation, thiopental induction to nitrous oxide and *d*-tubocurarine (Wollman & others), **26**: 329
cerebral flow and uptake of anesthetics (editorial), **25**: 1
cerebral hemodynamics, effect of inhalation anesthetics on (abstract), **21**: 89
-cerebrospinal fluid barrier and d-Tubocurarine (abstract), **24**: 127
changes in circulation at birth (review) (Dawes), **26**: 522
circulation: actions of halothane (Deutsch & others), **23**: 631
circulation, and cerebrospinal fluid pressure in dog, effect of hyperventilation, hypothermia and urea on (Lund & others), **26**: 45
circulation, augmentation of artificial during cardiopulmonary resuscitation (Harris & others), **28**: 730
circulation, central nervous actions of halothane affecting (abstract), **24**: 139
circulation (cerebral) during halothane anesthesia, effects of hypocarbia and *d*-tubocurarine (Wollman & others), **25**: 180; (current comment), **25**: 874; 875
circulation (cerebral), effects of carbon dioxide on (review) (Sokoloff), **21**: 664
circulation, effect of cyclopropane on reflexly induced circulatory responses in dog (Bartelstone & others), **27**: 756
circulation, effect of hyperventilation, hypothermia and urea on, in dog (Young & others), **24**: 313
circulation, effect of mephentermine during spinal anesthesia (abstract), **25**: 90
circulation, effect of methoxyflurane in dogs (abstract), **22**: 138
circulation, effect of propiomazine on (Markello & King), **27**: 20
circulation, effects of cyclopropane on (Jones & others), **21**: 380
circulation: effects of extreme ether anesthesia in dogs (Pearcy), **23**: 605
circulation; extracorporeal: see Oxygenator
circulation, failure of peripheral vascular circulation (review) (Sugioka & Grosskreutz), **22**: 759
circulation, has halothane predominant circulatory action? (Price & Price), **27**: 764
circulation, hepatic, changes induced by anesthesia, functional importance of (editorial) (Papper), **27**: 4
circulation, impedance plethysmography in anesthesiology (abstract), **23**: 162
circulation, isolation of head (current comment), **25**: 728

XUM

circulation, microcirculatory flow and use of dextran (Wells), **24**: 828
circulation (pulmonary), effect of various concentrations of oxygen on (abstract), **21**: 96
circulation, regulation of cardiac output (Guyton), **29**: 314
circulation, response to tilt with narcotic analgesics in normal healthy male subjects (Dobkin & Criswick), **22**: 398
circulation, response to tilt with pentazocine (Win 20, 228), droperidol (R4749), droperidol-fentanyl (Inovar), and methotrimeprazine (abstract), **26**: 253
circulation, response to tilting following methotrimeprazine and morphine (Helrich & Gold), **25**: 662
circulation, splanchnic, during halothane anesthesia (abstract), **26**: 246
circulation (systemic), central nervous actions of halothane affecting (Price & others), **24**: 770
circulatory and metabolic aspects of halothane anesthesia (abstract), **27**: 226
circulatory integrity under anesthesia, modified Valsalva maneuver as test (abstract), **26**: 239
circulatory responses to endotracheal intubation in light general anesthesia, effect of atropine and phentolamine (DeVault & others), **21**: 360
citrated banked, for open-heart surgery (Zuhdi & others), **21**: 496
coagulation, postoperative defects (review) (Perkins), **27**: 456
components, transfusion of (review) (Vogel & Vogel), **27**: 363
constituents, effect or buffer amine infusion on in hypercarbia and hypocarbia (Noe & others), **23**: 651
containing halothane, determining O_2 and CO_2 in (laboratory methods) (Theye), **30**: 325
cryproteinemia and hyperheparin states, role in bleeding and after hypothermic operations (abstract), **24**: 141
cyclic variation in oxygenation with respiratory cycle (Bergman), **22**: 900
effects of anesthesia on hemostatic mechanisms (Vanderveen & others), **23**: 92
effects of anesthetics on response of microcirculation to circulating humors (review) (Baez & Orkin), **24**: 568
effects of experimental hypercitremia on (Corbascio & Smith), **28**: 510
electrolytes after fresh-water aspiration (Modell & others), **30**: 421
electrolytes in human drowning victims (Modell & Davis), **30**: 414
ether tensions, spectrophotometric method for analysis (abstract), **21**: 94
ethyl ether content in, as determined by gas chromatography (Noehren & Cudmore), **22**: 519
flow, cerebral, effects of hypocapnia and dilutional anemia on (Michenfelder & Theye), **31**: 449
flow, internal carotid, during halothane anesthesia in dog (Galindo & Baldwin), **24**: 318
flow (regional), can general anesthetics produce splanchnic hypoxia by reducing? (Price & others), **27**: 24
flow through liver, effect of vasopressors on rate of, measured with P-32 (abstract), **22**: 127
gas exchange: see also Gases; specific gases
gas exchange, arterial blood gases in older patients during anesthesia (abstract), **29**: 198
gas exchange, arterial blood oxygen during thoracotomy using nitrous oxide-oxygen (Boutros & Weisel), **28**: 705
gas exchange, carbon dioxide dissociation curves of true plasma (Roos & Thomas), **28**: 1048
gas exchange, during endobronchial anesthesia (abstract), **21**: 100
gas exchange, effect of changes in maternal *p*H and P_{CO_2} on the P_{O_2} of fetal lambs (Motoyama & others), **28**: 891
gas exchange, effect of expiratory resistance on blood gas tensions in anesthetized patients (Cheney & others), **28**: 670
gas exchange, effect of nitrous oxide uptake on arterial oxygenation (Heller & others), **28**: 904
gas exchange, effects of changes in cardiac output and distribution on rate of cerebral anesthetic equilibration (Munson & others), **29**: 533
gas exchange, gas chromatography, in determining lidocaine and prilocaine in whole blood (Keenaghan), **29**: 110
gas exchange, halothane partial pressure in blood (Theye), **29**: 101
gas exchange, in near-drowning (Modell & others), **29**: 456
gas exchange, oxygen transport following intravenous prilocaine (Harris & others), **29**: 65
gas studies during laparoscopy (clinical workshop), **30**: 463
gas studies with halothane, nitrous oxide, and oxygen anesthesia during spontaneous respiration (abstract), **26**: 247
gas tensions and pulmonary mechanics during anesthesia in asthmatics (abstract), **27**: 216
gas transport, facilitated transfer of halothane in human erythrocytes (Greene & Webb), **31**: 548
glucose, effect of cyclopropane anesthesia on in man (Cervenko & Greene), **28**: 914
glucose, pyruvate, lactate, and metabolites of the tricarboxylic acid cycle, effects of ether and halothane on (Schweizer & others), **28**: 814
hematocrit determinations: see Microhematocrit
hematocrit values at various sites in man (clinical workshop), **29**: 145

hemodynamic action of diethyl ether (Jones & others), **23**: 299
hemodynamic effects of changes in arterial carbon dioxide tension during positive pressure ventilation (Morgan & others), **28**: 866
hemodynamic effects of diethyl ether (Kubota & others), **23**: 306
hemodynamic effects of oxygen inhalation (abstract), **23**: 144
hemodynamics during neurolept analgesia (abstract), **26**: 266
hemopoiesis in rats, effect of nitrous oxide inhalation (Green & Eastwood), **24**: 341
heparinized, coagulation of during open-heart surgery (abstract), **29**: 195
homogenates, solubility of halothane in (abstract), 153; (Larson & others), **23**: 349
hydrocarbon anesthetics in, determination by gas chromatography (Butler & others), **28**: 760
levels and cardiovascular dynamics during methoxyflurane inhalation in dogs (Bagwell & others), **23**: 243
levels of ether, chloroform, halothane and methoxyflurane in dogs (Chenoweth & others), **23**: 101
loss, acute, subarachnoid block in presence of (Kennedy & others), **29**: 29
loss, effect of changes in blood volume on body impedance (Underwood & others), **28**: 426
loss, estimation in operating room (current comment), **22**: 318; (correction), **22**: 499
loss, obstetrical, with halothane anesthesia (abstract), **23**: 140
measurement carbon dioxide in, during anesthesia (review) (Severinghaus), **21**: 717
measurement of erythrocyte, plasma, and extracellular fluid volumes simultaneously with radioactive tracers (Albert & others), **29**: 908
metabolism of procaine in cerebrospinal fluid contaminated with (current comment), **25**: 563
methemoglobin formation following intravenous prilocaine (Harris & others), **29**: 65
microcirculation, effects of vasopressors on (Hershey & others), **26**: 179
muscle flow, transient effect of thiopental in cat (Acheson), **24**: 658
oxygen content measured by O_2 electrode (clinical workshop), **28**: 773
oxygen saturation, rate of fall during apnea, effect of variation in lung volume and alveolar gas composition on (abstract), **22**: 128
oxygen tension, measurement in anesthesia (review) (Laver & Siefen), **26**: 73
*p*H and plasma levels of *d*-tubocurarine (Cohen & others), **26**: 727
philosophy of the use of (editorial), **27**: 359
plasma, in-vitro and in-vivo carbon dioxide dissociation curves of (Roos & Thomas), **28**: 1048
plasma, levels of ACTH and cortisol in man during diethyl ether anesthesia and surgery (Oyama & others), **29**: 559
plasma cholinesterase, study of family with atypical and "silent" genes for (clinical workshop), **28**: 1085
preservation by freezing (review) (Tullis & Lionetti), **27**: 483
pressure: see also Hypertension; Hypotension
pressure, and pulse rate, effects of endotracheal intubation on (Wycoff), **21**: 153
pressure, and volume, effect of urea on (abstract), **21**: 117
pressure, arterial, effects of halothane on (Skovsted & others), **31**: 507
pressure, arterial, effects of halothane on (Skovsted & Price), **31**: 515
pressure, arterial, in anesthetized man, effects of intravenous succinylcholine (Williams & others), **22**: 947
pressure, automated monitoring during surgical anesthesia (current comment), **27**: 861
pressure, changes in central venous, during controlled blood loss and transfusion during operation (abstract), **22**: 138
pressure, compared effects of spinal and epidural anesthesia upon (Defalque), **23**: 627
pressure, comparison of central and peripheral venous, during anesthesia (abstract), **26**: 238
pressure, determination, human, Korotkov sounds in (abstract), **28**: 274
pressure, determination in newborn with photosphygmometer (Williams & Eastwood), **22**: 237
pressure, effect of phenylephrine on survival and acid-base balance in dogs with acute hemorrhagic hypotension on constant volume ventilation (abstract), **21**: 107
pressure, effects of anesthesia on relation to heart rate (Bristow & others), **31**: 422
pressure, high: see Hypertension
pressure, indirect measurement during cardiopulmonary bypass (abstract), 96; (correction), **21**: 438
pressure, indirect systolic and diastolic, numerical indication of (current comment), **25**: 861
pressure, low: see Hypotension
pressure, manometer, holder for (current comment), **23**: 269
pressure, pneumatic monitor for arterial (current comment), **24**: 872
pressure, response to ephedrine, effect of specific adrenal medullary blockade on (abstract), **22**: 139
pressure, simple method for direct arterial (current comment), **27**: 93
pressure, stethoscope performance in transduction of human Korotkov sounds (abstract), **29**: 215
pressure, transcutaneous Doppler measurement (clinical workshop), **31**: 86
quantitative analysis of diethyl ether in (Rackow & others), **27**: 829

XUM

radioisotope tracers for simultaneous measurement of plasma and red cell volume and index of erythropoiesis (abstract), **23**: 138
renal flow of dog, effects of methoxyflurane on (abstract), **26**: 240
replacement (massive), potassium levels, acid-base balance and (Schweizer & Howland), **23**: 735
replacement, serial microhematocrit determinations in evaluating (Jacobs & others), **22**: 342
serial microhematocrit determinations (current comment), **23**: 134
simple technique for arterial sampling (current comment), **23**: 579
solubility of diethyl ether in (Eger & others), **24**: 676
solubility of methoxyflurane in (Eger & Shargel), **24**: 625
splanchnic circulation during cyclopropane anesthesia (Price & others), **26**: 312
splanchnic circulation during halothane anesthesia and hypercapnia (Epstein & others), **27**: 654
stored citrated, succinyldicholine esterase activity in (Fromberg & others), **21**: 64
temperature, a critical factor in massive transfusion (Boyan & Howland), **22**: 559
(and) tissue homogenates, solubility of fluroxene in (Munson & others), **25**: 638
transfusion: see also under Transfusion
transfusion, and controlled blood loss during operation, changes in central venous pressure during (abstract), **22**: 138
transfusion, effects of warming infused blood (abstract), **29**: 205
transfusion, inadvertent overheating of (current comment), **28**: 197
transfusion (massive), blood temperature, as critical factor in (Boyan & Howland), **22**: 559
transfusion, metabolic effects of (review) (Bunker), **27**: 446; (correspondence), **28**: 1110
transfusion, plasma volume changes in open-heart surgery (abstract), **21**: 107
transfusion, pump (current comment), **23**: 395
transfusion, reactions, protection against (editorial), **21**: 431
transfusions, auxiliary pump unit (current comment), **22**: 843
transfusions, complications and reactions during (review) (Seldon), **22**: 810
transport of carbon dioxide in (review) (Kinney), **21**: 615
umbilical: see under Placenta
uterine flow and placental circulation (review) (Martin), **26**: 447
venous and arterial *p*H and P_{CO_2} during general anesthesia (abstract), **24**: 134
venous concentration of local anesthetic agents during peridural anesthesia (abstract), **26**: 255
ventilation-blood acid-base diagram (abstract), **24**: 131
viscosity, effects of operation, anesthesia and plasma expanders on (Boyan & others), **27**: 279
viscosity, effects of surgery, inhalation anesthesia and plasma expanders (abstract), **27**: 208
(human) viscosity of, in vitro effects of inhalational anesthesia on (Behar & Alexander), **27**: 567
volume (review) (Albert), **24**: 231
volume, and hemodynamic changes during halothane anesthesia (Morse & others), **24**: 790
volume, and hemodynamics during operation with ether anesthesia and unreplaced loss (Theye & Tuohy), **25**: 6
volume, and viscosity, comparison of effect of norepinephrine and angiotensin on (abstract), **25**: 109
volume, autonomic regulation (Manson & Bartter), **29**: 681
volume, changes during pregnancy and delivery (review) (Pritchard), **26**: 393
volume, changes, electronic method of detecting (Underwood & Gowing), **26**: 199
volume changes in, effect on body impedance (Underwood & others), **28**: 426
volume, clinical method for estimation, with use of total sympathetic blockade (abstract), **22**: 136
volume, effect of cyclopropane and halothane on (Grable & others), **23**: 828; (current comment), **24**: 402
volume, effects of changes during IPPV (Morgan & others), **30**: 297
volume, measurement, modification of technique (current comment), **21**: 564
volume, replacement by physiologic saline solution in acute sustained hemorrhage (abstract), **29**: 203
warmer (current comment), **25**: 724
warming and hemolysis (current comment), **26**: 223
warming, physiologic effect in transfusions during ether anesthesia (Morris & Trachtenberg), **29**: 1174
water vapor pressure in (laboratory observations) (Ernst & Perez- Zamora), **31**: 272
whole, gas chromatographic analysis of cyclopropane in (laboratory methods) (Laasberg & Etsten), **26**: 216
whole, measurement of inhalation anesthetics in by gas chromatography (Yokota & others), **28**: 1064

Blood Vessels
effect of thiopental on peripheral venous tone (Ekstein & others), **22**: 525
effects of halothane on vascular resistance (Morrow & Morrow), **22**: 537
intravascular hemolysis following urea administration during hypothermia (case report) (current comment), **25**: 576
occlusive vascular disease (current comment), **24**: 884

studies of coronary arterial flow using square-wave electromagnetic flowmeter (abstract), **24**: 128
systemic venous circulation, anesthesia and (review) (Lurie), **24**: 368
use of radioiodinated serum albumin to confirm accidental intravascular insertion of epidural catheters (current comment), **25**: 564
Bloomstrom, A. D., see Cain, R. A., jt. auth.
Blum, L. L., A mechanical aid for positioning psychiatric patients for spinal and epidural anesthesia (current comment), **28**: 464
Blum, L. L., A method for concurrent artificial ventilation and cardiac massage by the same individual (clinical workshop), **29**: 841
Boake, W. C., see Rowe, G. G., jt. auth.
Boba, A., and Landmesser, C. M., Renal complications after anesthesia and operation (review), **22**: 781
Body fluid compartments, method for measuring (clinical workshop), **30**: 660
Body temperature, low: see Hypothermia
Boigris, F., A pleasant way to induce anesthesia in children (current comment), **27**: 691
Boldrey, E. B. (with Aguilar, J. A.), The effect of Arfonad on the monkey, **21**: 3
Bolgla, J. H., Resuscitation of the newborn infant (correspondence), **28**: 789
Bolpe, O., (current comment), **23**: 880
Bones: see Skull
Bonica, J. J., Autonomic innervation of the viscera in relation to nerve block, **29**: 793
——, Perspectives (editorial), **28**: 4
——, Regional anesthesia in private practice (Editorial), **21**: 554
——, The achievements of the past and the challenges of the future (editorial), **26**: 705
——, Wilson, J. F., Goodson, D. N., Ziegler, T. Q., Murphy, T. O., Downes, J. J., and Takamura, J., Effects of surgical pneumothorax on pulmonary ventilation, **22**: 955
——, see Allen, G. D., jt. auth.
——, see Freund, F. G., jt. auth.
——, see Hornbein, T. F., jt. auth.
——, see Kennedy, W. F., jt. auth.
——, see Martin, W. E., jt. auth.
Borgman, R. L., Walker, T. R.; Pittinger, C. B., and Long, J. P., Effects of barbiturates on skeletal muscle function, **21**: 144
Borgstedt, H. H., and Gillies, A. J., Determination of the solubility of nitrous oxide in water by gas chromatography (laboratory methods), **26**: 675
Borgstedt, H. H., Goodson, J. M., and Gillies, A. J., A computer program for gas volume reduction tables (technical note), **27**: 185
Borsuk, G. M. (with Opdyke, D. F., and Cannila, J. E.), Effect of respiration, asphyxia and muscle relaxants on cardiac output in the dog, **21**: 244
Bosomworth, P. P., see Morrow, D. H., jt. auth.
——, see Sprouse, J. H., jt. auth.
Bossers, A., see Shnider, S. M., jt. auth.
Bossman, O. G., see Mithoefer, J. C., jt. auth.
Botnik, E., see Elliott, H. W., jt. auth.
Bougas, T. P., see Glauser, E. M., jt. auth.
Boutros, A. R., Effects of nitrous oxide-curare, ether and cyclopropane on postoperative respiratory adequacy, **26**: 743
——, and Crosby, V. G., Tracheoesophageal fistula secondary to nonpenetrating trauma to the chest: anesthetic problems and management of a case (clinical workshop), **29**: 1057
——, and Weisel, M. R., Arterial blood oxygenation during thoracotomy using 70 per cent nitrous oxide in oxygen, **28**: 705
Bove, J. R., American Association of Blood Banks (report of meeting), **29**: 605
Bowers, D. L., see Munson, E. S., jt. auth.
Bowman, F. O., Jr., see Patterson, R. W., jt. auth.
Bowman, W. C., Callingham, B. A., and Goldberg, A. A. J., On the mechanism of action of hexamethylene-1,6-biscarbaminol choline bromide (Imbretil), **22**: 573
Box, J., see Fabian, L. W., jt. auth.
Boyan, C. P., and Howland, W. S., Blood temperature: a critical factor in massive transfusion **22**: 559
——, Underwood, P. S., and Howland, W. S., The effects of operation, anesthesia and plasma expanders on blood viscosity, **27**: 279
Boyd, T. F., see Marcus, P. S., jt. auth.
Brachial Plexus
anesthesia, subclavian perivascular technique of (Winnie & Collins), **25**: 353
block, continuous (clinical workshop), **30**: 332
block, technique (correspondence), **31**: 195
infiltration with dilute phenol solution in management of upper extremity spasticity (current comment), **27**: 87
palsy mechanism following anesthesia (Jackson & Keats), **26**: 190
Bradle. R. E., (current comment), **22**: 638
Bradycardia, preoperative (current comment), **26**: 686
Brain
alteration of human consciousness by nitrous oxide as assessed by electroencephalography and psychological tests (Henrie & others), **22**: 247
anesthetic equilibration, effects of changes in cardiac output and distribution on the rate of (Munson & others), **29**: 533
barbiturates in localizing diseased tissue (medical intelligence) (Brazier), **31**: 78
blood flow and cerebral tissue Po_2, effects of acetazolamide on (Cotev & others), **29**: 471
carbohydrate metabolism during hypocarbia, studies during nitrous oxide anesthesia (Alexander & others), **26**: 624
CO_2 tension (directly measured), relationship of respiration to (abstract), **21**: 102
central nervous actions of halothane affecting the circulation (abstract), **24**: 139

cerebral anesthetic equilibration rate, effects of hyperventilation on (Munson & Bowers), **28**: 377
cerebral anoxia, induced hypothermia following (Strong & Keats), **28**: 920
cerebral blood flow and uptake of anesthetics (editorial), **25**: 1
cerebral carbohydrate metabolism during halothane anesthesia, effects of $Paco_2$ on carbohydrate utilization (Cohen & others), **25**: 185
cerebral circulation during halothane, effects of hypocarbia and *d*-turbocurarine (Wollman & others), **25**: 180; (current comment), **25**: 874, 875
cerebral effects of induced electroencephalographic seizures in dogs (abstract), **24**: 135
cerebral hypoxia, hyperventilation with oxygen, possible cause of (Sugioka & Davis), **21**: 135
chemical transmission and cortical arousal (Krnjevic), **28**: 100
cholinesterase activity, effect of hexafluorodiethyl ether on (Ling & others), **22**: 426
circulation during general anesthesia and hyperventilation, thiopental induction to nitrous oxide and *d*-tubocurarine (Wollman & others), **26**: 329
cortex, auditory, of cat, effects of halothane and methoxyflurane on recovery cycles of click-evoked potentials from (Kitahata), **29**: 523
cortical units, effects of anesthetics on (Robinson), **28**: 144
damage, flicker and hyperventilation (abstract) **27**: 230
delayed postanoxic encephalopathy (current comment), **24**: 398
distribution of intracranial contents with controlled hyperventilation (Rosomoff), **24**: 640
dog, effect of anesthesia on tolerance to anoxia (abstract), **25**: 98
dog, electron microscopy of, electrical anesthesia by direct and alternating currents (Smith & others), **26**: 607
effect of halothane on cerebral ischemia in rabbits (abstract), **26**: 242
effect of hexafluorodiethyl ether and trifluoroethyl vinyl ether on cerebral metabolism (Ling & Krantz), **21**: 518
effect of hyperventilation on cerebral circulation (editorial) (Cohen), **29**: 865
effect of hyperventilation on subsequent cerebral infarction (Soloway & others), **29**: 975
effect of inhalation anesthetics on cerebral hemodynamics and metabolism (abstract), **21**: 89
effect of thiopental on human cerebral evoked responses (Abrahamian & others), **24**: 650
effect of trichlorethylene and methoxyflurane on central respiratory mechanisms (abstract), **24**: 136
effects of anesthesia on cardiovascular responses to hypothalamic and mesencephalic stimulation in dogs (abstract), **27**: 223
effects of carbon dioxide on cerebral circulation (review) (Sokoloff), **21**: 664
effects of cyclopropane, halothane and diethyl ether on serotonin levels (Diaz & others), **29**: 959
effects of drugs used in pregnancy on availability of fetal cerebral oxygen (Misrahy & others), **24**: 198
effects of hypocapnia and dilutional anemia on metabolism and blood flow in (Michenfelder & Theye), **31**: 449
effects of intrathecal oxygen on cortical survival during cardiac arrest (abstract), **23**: 155
effects of morphine, levallorphan and respiratory gases on increased intracranial pressure (Weitzner & others), **24**: 291
effects of neurotropic drugs upon electrical activity of midbrain tegmentum (abstract), **21**: 115
electroencephalogram as monitor of arterial blood levels of methoxyflurane (Wolfson & others), **28**: 1003
electroencephalogram chloroform anesthesia (Thomas & others), **22**: 542
electroencephalogram of awake man during hyperventilation: effects of oxygen at three atmospheres (abstract), **27**: 211
electroencephalogram, method for recording during electrical anesthesia (current comment), **24**: 728
electroencephalogram, synoptic interpretation with ECG in anesthetic emergencies (Leonhardt), **22**: 918
electroencephalographic effects of extreme ether anesthesia (Pearcy), **23**: 605
electroencephalographic patterns, correlation with arterial concentrations and clinical signs during halothane anesthesia (abstract), **23**: 147
electroencephalographic patterns during halothane anesthesia (current comment), **23**: 590
electroencephalographic study of dog brain effects of electronarcosis (Smith & others), **22**: 970
electroencephalography as monitor of blood levels of methoxyflurane (abstract), **28**: 275
electroencephalography (multichannel) in hypothermia and circulatory occulsion (Pearcy & Virtue), **21**: 35
fluid and electrolyte metabolism in (review) (Robin), **26**: 791
hypersynchronous electrical waves in rhinencephalic structures induced with inhalation anesthetics, role of preanesthetic medication in (abstract), **22**: 133
intracerebral gas anesthesia by diffusion through silicone rubber (Folkman & others), **29**: 419
intracranial hypertension of hypercapnic acidosis, effects of THAM, mannitol and urea on (abstract), **22**: 134
intracranial pressure and internal carotid blood flow during halothane anesthesia in dog (Galindo & Baldwin), **24**: 318

XUM

krypton and nitrous oxide uptake of, during anesthesia (Alexander & others), **25**: 37; (correction), **25**: 581
metabolism effect of halothane on (Theye & Michenfelder), **29**: 1113
metabolism, effect of hypothermia on (Michenfelder & Theye), **29**: 1107
metabolism, effect of nitrous oxide on (Theye & Michenfelder), **29**: 1119
oxygen consumption and anaerobic glycolysis, effects of cyclopropane and diethyl ether (Matteo & others), **30**: 156
pharmacologically active substances and relation to endocrine effects (review) (Way & Sutherland), **24**: 543
rat, effect of halothane on oyxgen consumption of (Hoech & others), **27**: 770
respiratory chemosensitivity of area postrema in fourth ventricle (abstract), **22**: 137
size and motion, effect of respiratory obstruction on (abstract), **23**: 142
stem, electrical impedence of, and anesthetic level (abstract), **27**: 231
stem, mechanisms of sleep (Zanchetti), **28**: 81
thiopental: effects on subcortical mechanisms in temporal lobe epilepsy (Brazier), **28**: 192
tolerance to thiopental in oxygen-consumption studies (Altenburg & others), **31**: 443
tumor, hyperventilation in craniotomy for (Schettini & others), **28**: 363
visually evoked responses, method for measuring cerebral effects of preanesthetic medication (Corssen & Domino), **25**: 330

Braly, Berton (with Nellermoe, C. W., and others), A clinical appraisal of 2-chloro-procaine in continuous caudal obstetrical anesthesia, **21**: 269

Brand, L., Mark, L. C., Landrau, M. A., and Dayton, P. G., Modification of method of analysis of methohexital in human plasma, **24**: 867

——, Mark, L. C., Snell, M. McM., Vrindten, P., and Dayton, P. G., Physiologic depression of methohexital in man, **24**: 331

——, and Papper, E. M., A comparison of supraclavicular and axillary techniques for brachial plexus blocks, **22**: 226

——, see Mark, L. C., jt. auth.

Brandstater, B., Dilatation of the larynx with Cole tubes (clinical workshop), **31**: 378

——, Valve for cuff inflation (letter to editor, clinical workshop), **29**: 1230

——, and Muallem, M., Atelectasis following tracheal suction in infants (clinical workshop), **31**: 468

——, see Eger, E. I., II, jt. auth.

Brauer, R. W., see Domino, E. F., jt. auth.

Braun, B., A new plastic intravenous cannula (current comment), **25**: 570

Brazier, M. A. B., Prenarcotic doses of barbituates as an aid in localizing diseased brain tissue (medical intelligence), **31**: 78

——, Thiopental: effects on subcortical mechanism in temporal lobe epilepsy, **28**: 192

Breathing: see Respiration

Brevital: see Methohexital Sodium

Brewer, W., see Cohen, E. N., jt. auth.

Bridenbaugh, L. D., and Moore, D. C., Does repeated heat sterilization of local anesthetic drugs affect potency? **25**: 372

——, Moore, D. C., Bagdi, P., and Bridenbaugh, P. O., The position of plastic tubing in continuous-block techniques: an x-ray study of 552 patients (clinical workshop), **29**: 1047

——, (with Nellermoe, C. W., and others), A clinical appraisal of 2-chloroprocaine in continuous caudal obstetrical anesthesia, **21**: 269

——, see Moore, D. C., jt. auth. (2)

Bridenbaugh, P. O., An endotracheal spray for the relief of bronchospasm (current comment), **27**: 860

——, see Bridenbaugh, L. D., jt. auth.

——, see Moore, D. C., jt. auth. (2)

Bridges, B. E., Jr., and Eger, E. I., II, The effect of hypocapnia on the level of halothane anesthesia in man, **27**: 634

Bristow, J. D., Prys-Roberts, C., Fischer, A., Pickering, T. G., and Sleight, P., Effects of anesthesia on baroreflex control of heart rate in man, **31**: 422

Brodman, E. B., see Foldes, F. F., jt. auth.

Brody, G. L., and Sweet, R. B., Halothane anesthesia as a possible cause of massive hepatic necrosis, **24**: 29

——, and Sweet, R. B., Halothane and hepatic necrosis (current comment), **24**: 743

Brody, M. J., see Cristoforo, M. F., jt. auth. (2)

Bromage, P. R., (current comment), **22**: 1018

——, Physiology and pharmacology of epidural analgesia (review), **28**: 592

Broman, K., see Weeks, D. B., jt. auth.

Bromberger-Barnea, B., see Virtue, R. W., jt. auth.

Bronchiolitis
pathophysiology and management in infants (editorial) (Swyer & Levison), **29**: 403
acute respiratory failure in infants with (Downes & others), **29**: 426

Bronchitic patient, respiratory depression in (Gold & others), **30**: 492

Bronchodilation by halothane and cyclopropane (Hickey & others), **31**: 334

Bronchography
anesthesia for (review) (Proctor), **29**: 1025
in children, modified endotracheal tubes for (current comment), **26**: 831
respiratory obstruction during (current comment), **26**: 234
simplified technique of topical anesthesia for (current comment), **26**: 358

Bronchopulmonary dysplasia in lung injury from oxygen (de Lemos & others), **30**: 609

Bronchospasm
endotracheal spray for relief of (current comment), **27**: 860
Bronchus
aerosols, bronchodilators and mucolytic agents (review) (Lovejoy & Morrow), **23**: 460
caliber, influence of anesthetics on (abstract), **26**: 242
measurement of bronchomotor tone (abstract), **24**: 132
performance during inhalation anesthesia (Colgan), **26**: 778
Brooks, H. L., see Dalen, J. E., jt. auth.
Bross, I. D. J. (with Bellville, J. Weldon, and Howland, W. S.), Postoperative nausea and vomiting IV: factors related to postoperative nausea and vomiting, **21**: 186
Brown, B. R., see Crout, J. R., jt. auth.
Brown, E. B., Jr., Acid-base debate (correspondence), **27**: 333
Brown, E. S., Seniff, A. M., and Elam, J. O., Carbon dioxide elimination in semiclosed systems, **25**: 31
——, see Han, Y. H., jt. auth.
Brown, I. M., see Foldes, F. F., jt. auth.
Brown, R. C., King, I. J., and McLaughlin, D. F., (current comment), **23**: 272
Brown, S. A., and Drinker, P. A., Nomograms for gas mixtures in respiratory therapy (clinical workshop), **29**: 830
Bruce, D. L., Eide, K. A., Linde, H. W., and Eckenhoff, J. E., Causes of death among anesthesiologists: A 20-year survey (medical intelligence), **29**: 565
——, and Koepke, J. A., Changes in granulopoiesis in the rat associated with prolonged halothane anesthesia, **27**: 811
——, and Traurig, H. H., The effect of halothane on the cell cycle in rat small intestine, **30**: 401
——, and Wingard, D. W., The effects of anesthesia on transplant rejection (clinical workshop), **30**: 235
——, see Linde, H. W., jt. auth.
Bruner, J. M. R., Hazards of electrical apparatus (review), **28**: 396
——, Workshop on Electrical Hazards in Hospitals (report of meeting), **29**: 1071
Brunn, H. M., Jr., see Foldes, F. F., jt. auth.
Brunner, E. A., The effects of diethyl ether on carbohydrate metabolism in skeletal muscle, **30**: 24
——, and Badola, R. P., A simple muscle-twitch monitor (clinical workshop), **31**: 466
——, see Crul, J. F., jt. auth.
Bryant, J. M., (current comment), **22**: 637
Buccigrossi, R., see Galla, S. J., jt. auth.
Buckley, J. J., and Jackson, J. A., Postoperative cardiac arrhythmias (review), **22**: 723
——, (with Schultz, E. A., Oswald, A. J., and Van Bergen, F. H.), Profound acidosis in an anesthetized human, report of a case, **21**: 285
Budris, A. V., Lippmann, M., and Lorhan, P. H., Tracheosophageal cleft (clinical workshop), **28**: 633
Buechel, D. R., see de Krey, J. A., jt. auth.
——, see Larson, C. P., Jr., jt. auth.
——, see Miller, R. D., jt. auth.
——, see Munson, E. S., jt. auth.
Buffer Amines: see also THAM
infusion, effect on certain blood constituents in hypercarbia and hypocarbia (Noe & others), **23**: 651
Buffer-Demand
and pH of local anesthetic solutions containing epinephrine (de Jong and Cullen), **24**: 801
Bullough, J. W., see Williams, C. H., jt. auth.
Bullwinkel, B., see Bendixen, H. H., jt. auth.
Bunker, J. P., Acid-base debate (correspondence), **27**: 203
——, Final Report of the National Halothane Study (editorial), **29**: 231
——, Metabolic acidosis during anesthesia and surgery (review), **23**: 107
——, Metabolic effects of blood transfusion (review), **27**: 446
——, Metabolic effects of blood transfusion: acid-base balance (correspondence), **28**: 1110
——, Neuroendocrine and other effects on carbohydrate metabolism during anesthesia (review), **24**: 515
——, The great trans-Atlantic acid-base debate (editorial), **26**: 591
——, see Bendixen, H. H., jt. auth.
——, see Vanderveen, J. L., jt. auth.
Bunsen Coefficients: see Solubility Coefficients
Burbank, B., and Owre, E. S., Ultrasonic conversion of the Emerson PV3 respirator (current comment), **27**: 866
Burch, J., see Lorhan, P. H., jt. auth.
Burg, S. P., see Nagel, E. L., jt. auth.
Burgison, R. M., (current comment), **22**: 491
Burke, S. F., see Neff, W. B., jt. auth.
Burnard, E. (current comment), **22**: 644
Burns
cardiac arrest in patient following succinyldicholine administration (current comment), **27**: 516
caused by warming blankets (clinical workshop), **29**: 149
caustic skin, following contact with solution from exhausted carbon dioxide absorption canister (current comment), **27**: 100
effect of carbonic anhydrase inhibition following topical sulfamylon in burned pateints (abstract), **29**: 207
severe, early treatment of (conference) (report of meeting), **28**: 472
succinylcholine administration in (current comment), **27**: 494
succinylcholine, danger of in treatment (current comment), **28**: 467
succinylcholine, in treatment of (correspondence), **28**: 234

Bushnell, L. S., An adverse effect of respiratory therapy (editorial), **29**: 1085
——, Conference on Respiratory Physiology (report of meeting), **29**: 607
Butler, J., see Cheney, F. W., jt. auth.
Butler, R. A., Kelly, A. B., and Zapp, J., The determination of hydrocarbon anesthetics in blood by gas chromatography (lab. methods), **28**: 760
——, and Linde, H. W., Trace compounds in halothane (current comment), **25**: 397
——, see Linde, H. W., jt. auth.
Button, L. N., see Walter, C. W., jt. auth.
Butyrophenone
with nitrous oxide and narcotic analgesic for general anesthesia (Holderness & others), **24**: 336
Bypass, cardiopulmonary: see cardiopulmonary bypass

C

Caffrey, J. A., Eckstein, J. W., Hamilton, W. K., and Abboud, F. M., Forearm venous and arterial responses to halothane and cyclopropane, **26**: 786
Cahill, G. F., Jr., and Thorn, G. W., Preoperative and postoperative management of adrenal cortical insufficiency (review), **24**: 472
Cain, R. A., Disposing of waste ether cans (current comment), **24**: 255
——, and Bloomstrom, A. D., Attachment for Drinker-type respirators (current comment), **24**: 115
Calcium
cyclopropane and, effect on Purkinje fibers (Temte & others), **28**: 354
hypocalcemia, experimental, caused by hypercitremia (Corbascio & Smith), **28**: 510
Cale, J. O., Parks, C. R., and Jenkins, M. T., Hepatic and renal effects of methoxyflurane in dogs, **23**: 248
Calesnick, B., and Milligan, D., Antidiuretic effect of subnarcotic doses of phenazocine, **23**: 81
Callingham, B. A., see Bowman, W. C., jt. auth.
Canadian Anaesthetists' Society (report of meeting) (Cervenko), **29**: 1237
(report of meeting) (Vandewater) **29**: 217
Cancer
carcinostatic action of nitrous oxide in mice (abstract), **27**: 214
Cancer Chemotherapy
prolonged apnea following succinylcholine administration in patients receiving AB-132 (abstract), **24**: 142, (Wang & Ross), **24**: 363
Cannard, T. H.; Dripps, R. D.; Helwig, J., Jr., and Zinsser, H. F., The electrocardiogram during anesthesia and surgery, **21**: 194
—— (with Wollman, H.), Skeletal muscle, esophageal and rectal temperatures in man during general anesthesia and operation, **21**: 476
Canner, P., see Cohen, E. N., jt. auth.
Cannilla, J. E. (with Opdyke, D. F., and Borsuk, G. M.), Effect of respiration, asphyxia and muscle relaxants on cardiac output in the dog, **21**: 244
Cannula: see under Apparatus and equipment
Cannulation, arterial, technique (clinical workshop), **31**: 289
Canzoneri, J., see Geddes, L. A., jt. auth.
Capizzi, L. S., Phillips, O. C., and Harris, L. C., Jr., Malignant hyperthermia during anesthesia (clinical workshop), **31**: 97
Cappe, B. E., A modified laryngeal cannula (current comment), **27**: 197
——, Nebulization during anesthesia (current comment), **26**: 116
Carbocaine: see Mepivacaine
Carbohydrate
cerebral metabolism during halothane anesthesia, effects of $Paco_2$ on utilization (Cohen & others), **25**: 185
cerebral metabolism during hypocarbia, studies during nitrous oxide anesthesia (Alexander & others), **26**: 624
metabolism during anesthesia, neuroendocrine and other effects on (review) (Bunker), **24**: 515
metabolism during anesthesia (studies) (abstract), **21**: 101
metabolism in skeletal muscle, effects of diethyl ether on (Brunner), **30**: 24
Carbon dioxide: see also Hypercarbia; Hypocarbia; Hypercapnia; Hypocapnia; Respiration
absorption canister, caustic skin burns following contact with solution from exhausted (current comment), **27**: 100
absorption of, influence of canister design on performance characteristics of commercial absorbers (abstract), **28**: 255
acclimatization to (review) (Kellogg), **21**: 634
acute phase of apneic oxygenation, effects of THAM on cerebrospinal fluid (abstract), **21**: 105
analysis of, and nitrogen curves for estimating the efficiency of ventilation (abstract), **24**: 137
and its control, Lavoisier's research on (Foregger), **23**: 662
and oxygen tensions as factors in respiration after apnea from hyperventilation (Sugioka & others), **23**: 776
and respiration in acid-base homeostasis (review) (Lambertsen), **21**: 642
biological role (review) (Goddard), **21**: 587
blood carbonic anhydrase activity in anesthetized man (Christian & Greene), **23**: 179
cardiovascular effects in man (Cullen & others), **31**: 407
cerebral carbohydrate metabolism during hypocarbia, studies during nitrous oxide anesthesia (Alexander & others), **26**: 624
correction factors for infrared, pressure broadening by nitrogen, nitrous oxide and cyclopropane (Severinghaus & others), **22**: 429
determination in blood containing halothane (laboratory methods) (Theye), **30**: 325

disposal from apparatus used in inhalational anesthesia (abstract), **23**: 148
disposal from devices used for inhalation anesthesia (review) (Adriani), **21**: 742
dissociation curves in-vitro and in-vivo of true plasma (Roos & Thomas), **28**: 1048
dynamics of changes in stores (review) (Farhi & Rahn), **21**: 604
effect of buffer amine infusion on certain blood constituents in hypercarbia and hypocarbia (Noe & others), **23**: 651
effect of drugs on respiratory response to (review) (Bellville & Seed), **21**: 727
effect of hypocapnia on cardiac output during anesthesia (Theye & others), **27**: 778
effect of hypocapnia on level of halothane anesthesia (Bridges & Eger), **27**: 634
effect of methoxyflurane-nitrous oxide anesthesia on Pa_{CO_2} (Dobkin & Song), **23**: 601
effect of P_{CO_2} on depth of anesthesia (McAleavy & others), **22**: 260
effect on epinephrine-induced arrhythmias (Ueda & others), **23**: 342
effect on intraocular pressure in anesthetized man (abstract), **25**: 99
effect of kidney (review) (Kennedy), **21**: 704
effect on neurohumoral and endocrine mechanisms (review) (Tenney), **21**: 674
effects of hypocarbia on cerebral circulation during halothane anesthesia (Wollman & others), **25**: 180; (current comment), **25**: 874; 875
effects of, on mechanics of respiratory system during anesthesia (Don & Robson), **26**: 168
effects of Pa_{CO_2} on carbohydrate utilization, cerebral carbohydrate metabolism during halothane anesthesia (Wollman & others), **25**: 185
effects of THAM, mannitol and urea on intracranial hypertension of hypercapnic acidosis (abstract), **22**: 134
effects on cardiovascular system (review) (Price), **21**: 652
effects on cerebral circulation (review) (Sokoloff), **21**: 664
elimination by lung (review) (Nunn), **21**: 620
elimination in semiclosed systems (Brown & others), **25**: 31
experimental correction of hypercapnic intracranial hypertension (Dos & others), **23**: 46
generator for stimulating respiration (current comment), **23**: 132
hypercapnia, phrenic nerve activity in (Garcia & Cherniak), **28**: 1029
hypercapnia, role in asphyxial death (Kristoffersen & others), **28**: 488
"hypercapnia" versus "hypercarbia (current comment), **22**: 324; (current comment), **22**: 852
hypercarbia during light halothane anesthesia with neuromuscular block (Davenport & others), **25**: 307; (current comment), **25**: 876
inhalation, effects on neuromuscular and electromyographic studies (Katz & Wolf), **25**: 781
inspiratory and expiratory concentrations during halothane anesthesia in infants (Podlesch & others), **27**: 823
Introduction to Symposium (Eckenhoff), **21**: 585
measurement of blood and gas, during anesthesia (review) (Severinghaus), **21**: 717
metabolic production (review) (Fleischer), **21**: 597
mixed expired, rapid continuous measurement (laboratory notes) (Smith), **29**: 1037
narcotic properties of in the dog (Eisele & others), **28**: 856
rate of rise of $P_{A_{CO_2}}$ in apneic anesthetized patient (Eger & Severinghaus), **22**: 419
relationship of respiration to directly measured brain CO_2 tension (abstract), **21**: 102
respiratory effects in the cat (Raymond & Standaert), **28**: 974
respiratory, effects of depressants during anesthesia (abstract) **21**: 110
respiratory respose to, effect of sleep plus morphine on (Forrest & Bellville), **25**: 137
respiratory threshold for, in anesthetized man (Hanks & others), **22**: 393
response, bedside measurement of (clinical workshop), **28**: 624
response curve, rapid version in sedated bronchitic patients (Gold & others), **30**: 492
role in nervous system (review) (Woodbury & Karler), **21**: 686
significance in anesthetized patient (panel discussion), **21**: 759
(John) Snow's early research on (Foregger), **21**: 20
splanchnic circulation during halothane anesthesia and hypercapnia (Epstein & others), **27**: 654
tension, arterial, hemodynamic effects of changes during positive pressure ventilation (Morgan & others), **28**: 866
tension gradients, arterial–alveolar, after cardiac resuscitation (Suwa & others), **30**: 37
tensions to determine adequacy of ventilation (correspondence), **27**: 334; 335; 869
titration, effect of metabolic acidosis (Mithoefer & others), **30**: 395
transport in blood (review) (Kinney), **21**: 615
variation in balance and ventilatory response (abstract), **21**: 111
venous and arterial pH and P_{CO_2} during general anesthesia (abstract), **24**: 134
ventilatory response to hypercapnia and hypoxia at normothermia and moderate hypothermia during constant-depth halothane anesthesia (Regan & Eger), **27**: 624

Carbon monoxide
accumulation (correspondence), **27**: 332
accumulation in closed circle anesthesia systems [Middleton & others), **26**: 715

Carbon tetrafluoride, anesthetic potency (Eger & others), **30**: 129

Carbonic Anhydrase
blood, activity in anesthetized man (Christian & Greene), **23**: 179

Carcinoid
tumors, anesthetic significance of serotonin secreting (review) (Stone & Donnelly), **21**: 203
Cardiac: see under Arrhythmias, Catheterization, Heart, Resuscitation
Cardiopulmonary bypass: see also under Oxygenator
effect of vasodilation during (Glushien & Harris), **28**: 985
Cardiopulmonary function
changes following major surgery, graphic analysis (abstract), **30**: 337
effect of postoperative pain relief on (Muneyuki & others), **29**: 304
Cardiovascular collapse following administration of succinylcholine to the traumatized patient (Mazze & others), **31**: 540
Cardiovascular disease
cyclopropane–carbon dioxide arrhythmic threshold in patients with (Strong & others), **29**: 295
stress of anesthesia and surgery to patients with (abstract), **28**: 267
Cardiovascular Surgery
anesthesia for in infancy (Strong & others), **27**: 257
Cardiovascular System: see also under Blood; Heart; Veins
autonomic regulation (Mason), **29**: 670
bleeding volume variations, effects of halothane, ether and thiopental in dogs (Marcus & others), **23**: 671
blood levels and cardiovascular dynamics during methoxyflurane inhalation in dogs (Bagwell & others), **23**: 243
effect of local anesthetics on (Stewart & others), **24**: 620
effects of atropine and scopolamine on (Gravenstein & others), **25**: 123; (List & Gravenstein), **26**: 299
effects of carbon dioxide on (review) (Price), **21**: 652; (Cullen & others), **31**: 407
effects of cyclopropane (Cullen & others), **31**: 398
effects of halothane (Mahaffey & others), **22**: 982
effects of halothane and halothane-diethyl ether azeotrope in dogs (Dobkin & others), **21**: 13
effects of halothane and cyclopropane on (Christoforo & Brody), **29**: 36, 44
effects of halothane on circulatory reflexes of the dog (Epstein & others), **29**: 867
effects of halothane on vasomotor control mechanisms of the dog (Wang & others), **29**: 877
effects of methoxyflurane (Bagwell & Woods), **23**: 51; (abstract), **23**: 164
effects of methoxyflurane and halothane in dogs (Dobkin & Fedoruk), **22**: 355
effects of methoxyflurane anesthesia (Walker & others), **23**: 639
effects of nitrous oxide during halothane anesthesia in dog (Smith & Corbascio), **27**: 560
effects of peridural anesthesia (Kennedy & others), **31**: 414
effects of respiratory alkalosis (Moster & others), **31**: 28
effects of sedative doses of pentobarbital and hydroxyzine (Andersen & Gravenstein), **27**: 272
effects of synthetic oxytocin (Katz), **25**: 653
hemodynamic action of diethyl ether (Jones & others), **23**: 299
hemodynamic and central nervous actions of cyclopropane in dog (Price & others), **24**: 1
hemodynamic effects of diethyl ether (Kubota & others), **23**: 306
hemodynamic effects of oxygen inhalation (abstract), **23**: 144
influence of reserpine on, and sympatho-adrenal responses to cyclopropane anesthesia in dog (Bagwell & others), **25**: 148
lidocaine: cardiovascular and hemodynamic effects (Kennedy & others), **31**: 414
of dog anesthetized with cyclopropane, effect of morphine on (Schull & others), **22**: 199
renal effects of halothane (Blackmore & others), **21**: 489
response to cyclopropane and halothane, effect of propranolol on (Craythorne & Huffington), **27**: 580
responses to CI-581 (Dowdy & Kaya), **29**: 931
responses to ether anesthesia in dog, influence of reserpine on (Bagwell & others), **25**: 15
responses to hypothalamic and mesencephalic stimulation in dogs, effects of anesthetics (abstract), **27**: 223
systemic and coronary hemodynamic effects of trimethaphan camphorsulfonate (Arfonad) in dog (Rowe & others), **25**: 156
vasoconstriction produced by anesthesia (commentary) (Price), **29**: 57
venous circulation during spinal and epidural anesthesia (Shimosato & Etsten), **30**: 619
Carey, J. (with Zuhdi, N.; McCollough, B., and Greer, A.), The use of citrated banked blood for open-heart surgery, **21**: 496
Carignan, G., Keéri-Szàntò, M., and Lavalée, J.-P., Postanesthetic scoring system (current comment), **25**: 396
Carnes, M. A., see Fabian, L. W., jt. auth.
Carpenter, F. G., Transmission in sympathetic ganglia, **29**: 634
Carr, B. M., (current comment), **22**: 319
Carroll, R., Hedden, M., and Safar, P., Intratracheal cuffs: performance characteristics (clinical workshop), **31**: 275
Carroll, R., Hedden, M., and Safar, P., Tracheostomy cuffs; physical characteristics and physiologic sequelae (abstract), **30**: 336
Carson, R. P., and Domino, E. F., Synergistic and antagonistic effects of premedication on general anesthetics in mice, **23**: 187
Carson, S. A. A., and Morris, L. E., Controlled acid-base status with cardiopulmonary bypass and hypothermia, **23**: 618
——, see Young, T. M., jt. auth.
Carter, S. H., see Finch, J. S., jt. auth.
Carveth, S. W., see Hessler, O., jt. auth.

XUM

CASADY, G. N. (with NELLERMOE, C. W., and others), A clinical appraisal of 2-chloroprocaine in continuous caudal obstetrical anesthesia, **21**: 269
CASCORBI, H. F., (current comment, **22**: 491
——, see HELRICH, M., jt. auth.
CASSELLE, D. C., see HORNBEIN, T. F., jt. auth.
Catecholamines: see also under names of specific compounds
adrenal venous decreased during methoxyflurane anesthesia (Li & others), **29**: 1145
adrenal venous during methoxyflurane anesthesia (correspondence), Gronert, **30**: 475; Li, **30**: 475
biosynthesis and metabolism (Kopin), **29**: 654
effect of cyclopropane on biotransformation (Gardier & others), **28**: 677
effects of anesthetics on myocardial (Li & others), **25**: 641
failure to replenish stores in reserpinized dogs (Crandell & others), **24**: 636
-induced arrhythmias during halothane anesthesia (Andersen & Johansen), **24**: 51
levels and halothane anesthesia in patient with pheochromocytoma (current comment), **26**: 688
levels during light and deep anesthesia (Hamelberg & others), **21**: 297
relation of minimum alveolar anesthetic requirement to (Miller & others), **29**: 1153
sampling and analysis [Crout), **29**: 661
vasopressor drugs and (Zaimis), **29**: 732
Catheters: see under Apparatus and equipment; Endotracheal Catheter
disposable ureteral, for epidural anesthesia (current comment), **26**: 116
epidural, use of radioiodinated serum albumin to confirm accidental intravascular insertion of (current comment), **25**: 564
intra-atrial placement under electrocardiographic guidance (current comment), **25**: 388
intravenous (plastic), phlebitis from (Cheney & Lincoln), **25**: 650; (abstract) **25**: 92
plastic, effect of methoxyflurane on (current comment), **25**: 857
Caudal Anesthesia: see Anesthesia, caudal
Caudal block
accumulation of mepivacaine during (clinical workshop), **29**: 585
CAVE, P., and FLETCHER, G., Resistance of nasotracheal tubes used in infants (clinical workshop), **29**: 588
Celiac plexus block, radiographic approach (clinical workshop), **31**: 373
Cell biology, anesthetics and (editorial) (Andersen), **30**: 361
Cell culture, effects of volatile anesthetics in (Fink & Kenny), **29**: 505
Cell division, effect of halothane (Bruce & Traurig), **30**: 401
Cells: see also under Blood, Cerebrospinal Fluid
cultured human respiratory epithelium, use in comparison of cytoxic properties of local anesthetics (Corssen & Allen), **21**: 237
functional organization of the spinal cord (Eccles), **28**: 31
mechanisms of in general anesthesia (Wall), **28**: 46
morphology, fine structure of cell contact and the synapse (Kelly), **28**: 6
red (human), osmotic fragility caused by urea administration during hypothermia (current comment), **27**: 318
red, production and survival (review) (Blaisdell), **27**: 374
Central nervous system: see also under Nerves; Nervous system; Neuromuscular
anesthetic actions in (editorial) (Miller), **30**: 127
effects of halothane and methoxyflurane on recovery cycles of click-evoked potentials from the auditory cortex of the cat (Kitahata), **29**: 523
Hering-Breuer reflex in anesthetized man (Paskin & others), **29**: 550
lidocaine action in (editorial) (Munson & Wagman), **30**: 3
lidocaine facilitation of synaptic transmission (de Jong & others), **30**: 19
monosynaptic transmission in cat spinal cord (de Jong & Robles), **29**: 887
spironolactone effect on (Selye & others), **31**: 261
sympathetic excitation by cyclopropane (Price & others), **30**: 426
synaptic transmission, depression as measurement of anesthetic potency (de Jong & others), **29**: 1139
Cerebral: see Brain
Cerebral metabolism: see under Metabolism
Cerebrospinal Fluid
-blood barrier, d-tubocurarine and (abstract), **24**: 127
cells and proteins following spinal anesthesia (Marx & others), **24**: 305
contaminated with blood, metabolism of procaine in (current comment), **25**: 563; correction, **25**: 876
experimental correction of hypercapnic intracranial hypertension (Dos & others), **23**; 46
human, osmolality at 37°C. (current comment), **26**: 829
oxygen tension (abstract), **22**: 129
pressure, changes during pneumoencephalography under nitrous oxide anesthesia (Saidman & Eger), **26**: 67
pressure during apneic oxygenation, effects of THAM on (abstract), **21**: 105
pressure in dog, effect of hyperventilation, hypothermia and urea on circulation and (Lund & others), **26**: 45; (Young & others), **24**: 313
pressures during labor and obstetrical anesthesia (Marx & others), **22**: 348
proteins and spinal anesthesia in obstetrics (Marx & Orkin), **26**: 340
CERVENKO, F. W., Canadian Anaesthetists' Society (report of meeting), **29**: 1237

——, and GREENE, N. M., Effect of cyclopropane anesthesia on glucose assimilation coefficient of man, **28**: 914
Cesarean section: see under Obstetrics
CHALAZONITIS, N., Selective actions of volatile anesthetics on synaptic transmission and autorhythmicity in single identifiable neurons, **28**: 111
CHAPLIN, H., and SWISHER, S. N., Protection against transfusion reactions (Editorial), **21**: 431
CHARLES, E. U., see SLASS, H., jt. auth.
Charts
comprehensive simple anesthesia record (special article), **21**: 557
CHASE, H. F., KILMORE, M. A., and TROTTA, R., Respiratory water loss via anesthesia systems: mask breathing, **22**: 205
CHASE, M. H., and CLEMENTE, C. D., Central neural components of the autonomic nervous system, **29**: 625
CHASE, P. E., see ALEXANDER, S. C., jt. auth.
——, see COHEN, P. J., jt. auth.
——, see HOLDERNESS, M. C., jt. auth.
——, see WOLLMAN, H., jt. auth.
Chemicals
acute injury to airway and lungs, experience with six cases (Conner & others), **23**: 538
Chemistry
physical, of halothane-ether mixtures (Hall & others), **21**: 522
Chemotherapy: see under Cancer, specific diseases
CHEN, P.-Y., SHANKS, C., GAMBLE, C., and SHIMOSATO, S., Influence of methoxyflurane on myocardial mechanics of the digitalized heart (abstract), **30**: 336
——, see DI FAZIO, C. A., jt. auth.
——, see SHIMOSATO, S., jt. auth.
CHENEY, F. W., and BUTLER, J., The effects of ultrasonically-produced aerosols on airway resistance in man, **29**: 1099
——, HORNBEIN, T. F., and CRAWFORD, E. W., The effect of expiratory resistance on the blood gas tensions of anesthetized patients, **28**: 670
CHENEY, F. W., JR., and LINCOLN, J. R., Phlebitis from plastic intravenous catheters, **25**: 650
Cheng Epidural Needle
introducer for (current comment), **24**: 739
CHENG, P. A., Introducer for the Cheng epidural needle (current comment), **24**: 739
CHENOWETH, M. B., ROBERTSON, D. N., ERLEY, D. S., and GOLHKE, R., Blood and tissue levels of ether, chloroform, halothane and methoxyflurane in dogs, **23**: 101
——, see CORSSEN, G., jt. auth.
——, see VAN DYKE, R. A. jt. auth.
CHERNIACK, N. S., see GARCIA, A., jt. auth.
Chest
compression, constant, effects on performance of ventilators (Amaha & others), **28**: 498
Children: see also under Infants; Pediatrics; specific diseases and procedures
anesthesia for (review) (Rackow & Salanitre), **30**: 208
anesthetic management of cleft lip-palate malformation (Salanitre & Rackow), **23**: 610
changes in pulse rate and rhythm associated with use of succinylcholine in anesthetized children (Craythorne & others), **21**: 465
comparison of various drug combinations as preanesthetic medication (Eger & others), **22**: 962
dose-effect study of preoperative medication in (Rackow & Salanitre, **23**: 747
hospitals and parents (Smith), **25**: 461
inhalational therapy in pediatrics (review) (Smith), **27**: 548
method of induction of anesthesia in (abstract), **25**: 107
neuromuscular blockade by *d*-tubocurarine in (Long & Bachman), **28**: 723
neuromuscular blockade by succinylcholine in (Nightingale & others), **27**: 736
oral premedication with 4-hydroxybutyrate (abstract), **26**: 259
postoperative distress in (abstract), **22**: 145
premedication utilizing tranquilizers and newer narcotics (abstract), **22**: 142
pulmonary ventilation during halothane anesthesia (Wilson & Harrison), **25**: 613
response to muscle relaxants (Lim & others), **25**: 161
steroid and antihistaminic therapy for postintubation subglottic edema in (Deming & Oech), **22**: 933
with cystic fibrosis of pancreas, anesthetic experience in (Salanitre & others), **25**: 801
with status asthmaticus, arterial blood gas and acid-base derangements in (abstract), **26**: 245
Chin
holder and ether screen (current comment), **25**: 571
China
achievements in anesthesiology (abstract) (current comment), **22**: 855
CHIRON, A. E., see LEAR, E., jt. auth.
Chloral Hydrate
hypnotic activity of (abstract), **23**: 155
Chloroform
anesthesia, clinical experience (Poe & Mayfield), **21**: 508
anesthesia, electroencephalogram during (Thomas & others), **22**: 542
anesthetic potency (Eger & others), **30**: 129
blood and tissue levels in dogs (Chenoweth & others), **23**: 101
clinical comparison with halothane by blind study technique (Bamforth & others), **21**: 273
effect on force of contraction of rat heart (Paradise & Bibbins), **31**: 349
effects on human liver cells *in vitro* (Corssen & others), **27**: 155
fate (editorial) (Van Dyke), **30**: 257
influence on potassium content of rat atria (Paradise & Griffith), **26**: 195
output with 'copper kettle' (current comment), **23**: 581

XUM

uptake and metabolism in the mouse (Cohen & Hood), **30**: 306
Chloroprocaine (Nescaine)
evaluation of (abstract), **21**: 92
in continuous caudal obstetrical anesthesia, clinical appraisal (Nellermoe & others), **21**: 269
intravenous regional anesthesia with (abstract), **26**: 244
CHODOFF, P., and HELRICH, M., Factors affecting pediatric endotracheal tube size: A statistical analysis (clinical workshop), **28**: 779
Cholinergic blocking agents
muscarinic, central and peripheral effects (Domino & Corssen), **28**: 568
Cholinesterase
activity (brain), effect of hexafluorodiethyl ether on (Ling & others), **22**: 426
plasma, relation to prolonged apnea from succinylcholine (Foldes & others), **24**: 208
plasma, study of family with atypical and "silent" genes for (clinical workshop), **28**: 1085
possible atypical silent heterozygotes with extemely low activity (current comment), **27**: 698
serum activity during pregnancy, labor and puerperium (abstract), **26**: 260; (Shnider), **26**: 335
CHRISTIAN, G., and GREENE, N. M., Blood carbonic anhydrase activity in anesthetized man, **23**: 179
CHRISTIE, T. H. (with CHURCHILL-DAVIDSON, H. C., and WISE, R. P.), Dual neuromuscular block in man **21**: 144
Chromatography: see also under Gas chromatography
analysis of expired air containing halothane (Theye), **25**: 75
gas analysis of cyclopropane in whole blood (laboratory methods) (Laasberg & Etsten), **26**: 216
gas, analysis of halothane in gas and blood by (Rutledge & others), **24**: 862
gas, analysis of inhalation anesthetics in whole blood by equilibrium method (Yamamura & others), **27**: 311
gas, analytical method for anesthesiology research (Summers & Adriani), **22**: 100
gas, analytical tool in anesthesiology (abstract), **21**: 98
gas, determination of methoxyflurane in blood (Gadsden & others), **23**: 831
gas, determination of solubility of nitrous oxide in water by (laboratory methods) (Borgstedt & Gillies), **26**: 675
gas, ethyl ether content in blood as determined by (Noehren & Cudmore), **22**: 519
gas, metabolic breakdown of thiopental determined by (Furano & Greene), **24**: 796
gas, rapid blood ether determinations (abstract), **24**: 122
gas, stability of local anesthetics after autoclaving determined by (Katz), **27**: 835
Chromic Phosphate (P-32)
rate of blood flow through liver measured with, effect of vasopressors (abstract), **22**: 127
CHUN, L., and KARP, M., Unusual complications from placement of catheters in caudal canal in obstetrical anesthesia (current comment), **27**: 96
CHURCHILL-DAVIDSON, H. C., A portable peripheral nerve-stimulator (current comment), **26**: 224
——, The *d*-tubocurarine dilemma (editorial), **26**: 132
——, The succinylcholine story (editorial), **24**: 761
——, CHRISTIE, T. H., and WISE, R. P., Dual neuromuscular block in man, **21**: 144
——, and KATZ, R. L., Dual, phase II, or desensitization block? (editorial), **27**: 536
——, WAY, W. L., and DE JONG, R. H., The muscle relaxants and renal excretion, **28**: 540
——, and WISE, R. P., Neuromuscular transmission in the newborn infant, **24**: 271
CI-581: see also 2-orthochlorophenyl, 2-methylamino cyclohexanone HCl.
cardiovascular responses to (Dowdy & Kaya), **29**: 931
CICCARELLI, H. E., see SIKER, E. S., jt. auth.
——, see WOLFSON, B., jt. auth.
CIOLA, L. F., (current comment), **22**: 844
Circle Absorption System
adult, acid-base balance in infants during halothane anesthesia with (abstract), **25**: 99
flammability of Fluoromar in (Gramling & Volpitto), **24**: 194
Circle Systems
low inflow, and nitrous oxide (Smith), **27**: 266
Circulation: see Blood, circulation; under Cardiovascular System; Heart
changes due to open pneumothorax in surgical patients (Li & others), **21**: 171
circulatory embarrassment in patients with large diaphragmatic hernias (clinical workshop), **29**: 164
effects of changes in cardiac output and distribution on rate of cerebral anesthetic equilibration (Munson & others), **29**: 533
effects of halothane and nitrous oxide on (abstract), **29**: 212
effects of halothane on circulatory reflexes of the dog (Epstein & others), **29**: 867
effects of halothane on vasomotor control mechanisms of the dog (Wang & others), **29**: 877
effects of narcotics and narcotic antagonists on (abstract), **21**: 115
evaluation in man (editorial) (Smith & Hoffman), **30**: 589
immediate effects of anesthesia (abstract), **30**: 339
mathematical model (Munson & others), **29**: 533
occulsion, multichannel electroencephalography in (Pearcy & others), **21**: 35
pulmonary hemodynamics during general anesthesia in man (Price & others), **30**: 629
response to halothane, nitrous effects on (Hornbein & others), **31**: 250

splanchnic during nitrous oxide anesthesia and hypocarbia (Cooperman & others), **29**: 254
venous system during spinal and epidural anesthesia (Shimosato & Etsten), **30**: 619
Circulatory transport, regulation, and exchange, the physical bases of (report of meeting), **28**: 280
Citanest: see Propitocaine
Citanest (L-67)
evaluation in peridural anesthesia (Crawford), **25**: 321
Citrate, serum hemodynamic effects of experimental hypercitremia (Corbascio & Smith), **28**: 510
Citrated Blood: see under Blood
Clark, R. B., Hazard of placing infants anesthetized with ether in incubators (current comment), **24**: 119
——, Hawks, B. L., and Muench, L. F., An Apgar timer (letter to editor, clinical workshop), **29**: 1231
Cleft Lip
-palate malformation, anesthetic management of child with (Salanitre & Rackow), **23**: 610
Clement, A. J., see Epstein, R. M., jt. auth.
——, see Price, H. L., jt. auth.
Clemente, C. D., see Chase, M. H., jt. auth.
Clinical Workshop (editorial) (Hershey), **28**: 973
Closed-Chest Technique: see under Hypothermia; Resuscitation
Clutton-Brock, J., Anti-analgesia (correspondence), **26**: 697
Coagulation: see under Blood
Cobb, S., Muscle relaxants and pain perception (editorial), **22**: 314
——, see Edwards, G. T., jt. auth.
Cockett, A. T.: see Franks, D. P., jt. auth.
Cody, J. R., Muscle rigidity following administration of succinylcholine (clinical workshop), **29**: 159
Cohen, D. D., A new mask (current comment), **26**: 111
——, and Groveman, J. E., "Explosion" in an anesthesia vaporizer (current comment), **27**: 331
——, and Maas, L. P., Inadvertent overheating of blood for transfusion (current comment), **27**: 197
Cohen, E. N., Distribution of local anesthetic agents in the neuraxis of the dog, **29**: 1002
——, Impurities in halothane (correspondence), **26**: 236
——, Metabolism of halothane (editorial), **28**: 651
——, Metabolism of halothane-2 ^{14}C in the mouse, **31**: 560
——, Brewer, W., Bellville, J. W., and Sher, R., The chemistry and toxicology of dichlorohexafluorobutene, **26**: 140
——, Brewer, H. W., and Smith, D., The metabolism and elimination of *d*-tubocurarine, **28**: 309
——, and Hood, N., Application of low-temperature autoradiography to studies of the uptake and metabolism of volatile anesthetics in the mouse. I. Chloroform, **30**: 306
——, and Hood, N., Application of low-temperature autoradiography to studies of the uptake and metabolism of volatile anesthetics in the mouse. II. Diethyl ether, **31**: 61
——, and Hood, N., Application of low-temperature autoradiography to studies of the uptake and metabolism of volatile anesthetics in the mouse. III. Halothane, **31**: 553
——, Hood, N., and Canner, P., Blood *p*H and Plasma Levels of *d*-Tubocurarine, **26**: 727
——, Hood, N., and Golling, R., Use of whole-body autoradiography for determination of uptake and distribution of labled muscle relaxants in the rat, **29**: 987
——, Levine, D. A., Colliss, J. E., and Gunther R. E., The role of *p*H in the development of tachphylaxis to local anesthetic agents, **29**: 994
——, see Feldman, S. A., jt. auth.
——, see Fleischli, G., jt. auth.
Cohen, P. J., Things are seldom what they seem (editorial), **29**: 865
——, Marshall, B. E., and Lecky, J., Effects of halothane on mitochondrial oxygen uptake: site of action (abstract), **30**: 337
——, Wollman, H., Alexander, S. C., Chase, P. E., and Behar, M. G., Cerebral carbohydrate metabolism in man during halothane anesthesia. Effects of Pa_{CO_2} on some aspects of carbohydrate utilization, **25**: 185
——, see Alexander, S. C., jt. auth.
——, see Heisterkamp, D. V., jt. auth.
——, see Marshall, B. E., jt. auth.
——, see Wollman, H., jt. auth.
Cold Exposure
problems in resuscitation from (abstract), **24**: 124
Cole, D. W., see Harris, W. H., jt. auth.
Cole tubes: see under Apparatus and equipment
Colgan, F. J., Performance of lungs and bronchi during inhalation anesthesia, **26**: 778
——, and Mahoney, P. D., A graphic analysis of cardiopulmonary changes following major surgery (abstract), 30: 337
——, and Mahoney, P. D., The effects of major surgery on cardiac output and shunting, **31**: 213
——, and Whang, T. B.,: A method for measuring the functional residual capacity and dynamic lung compliance during oxygen and halothane inhalation, **28**: 559
——, and Whang, T. B., Anesthesia and atelectasis, **29**: 917
——, Whang, T. B., and Gillies, A. J., Atelectasis and pneumothorax: effect on lung function and shunting, **29**: 923
Collett, J. M., see Giesecke, A. H., jt. auth.
Collins, V. J., Preamble (to Ralph M. Waters Award Lecture), **28**: 201
——, (with Munchow, O. B.; Granatelli, A. F., and Rovenstine, E. A.), Clinical experiences with metaraminol as a vasopressor agent in spinal anesthesia, **21**: 471
——, see Winnie, A. P., jt. auth.

Collis, J. E., see Cohen, E. N., jt. auth.
Colliton, R. J., see Martin, S. J., jt. auth.
Colón-Yordán, E., and Jiménez-Vélez, J. L., Effects of intravenous atropine and scopolamine during cyclopropane-succinylcholine anesthesia, **23**: 333
Columbia University College of Physicians and Surgeons
history of department of anesthesiology (Mark & others), **28**: 296
Jubilee (editorial) (Vandam), **28**: 295
Compazine: see Procloperazine
Compliance: see under Lungs; Respiration
Complications: See also Anesthesia, postanesthetic complications; under names of specific agents, procedures or body systems from placement of catheters in caudal canal in obstetrical anesthesia (current comment), **27**: 96
unusual, following venous cutdown (current comment), **27**: 198
Compound 347, evaluation (Dobkin & others), **29**: 275
Compression, circumferential pneumatic, effects of (abstract), **29**: 213
Computer
analog, in anesthetic research (Bellville & Hara), **27**: 70
analog simulation for distribution of *d*-tubocurarine (Fleischli & Cohen), **27**: 64
analog, technology, medicine and man (editorial) (Bartholomay), **27**: 1
digital, use in aortic pulse contour calculation of cardiac output (laboratory methods) (Graves & others), **29**: 580
program for analysis of anesthetic records (clinical workshop), **30**: 565
program for gas volume reduction tables (Borgstedt & others), **27**: 185
species differences (editorial) (Mark), **27**: 113
use in processing anesthetic records (clinical workshop), **29**: 595
Comroe, J. H., Jr., and Conner, E. H., jt. auth.
Conference on Drug Metabolism (report of meeting) (Fink), **30**: 116
Conference on Neurophysiology in Relation to Anesthesiology
Foreword (editorial) (Fink), **28**: 1
discussants, **28**: 200
Perspectives (editorial) (Bonica), **28**: 4
Preface (editorial) (Eccles), **28**: 2
Conference on Respiratory Physiology (report of meeting) (Bushnell), **29**: 607
Connector
new dual purpose Y (current comment), **25**: 575
Conner, E. H., DuBois, A. B., Comroe, J. H., Jr., Acute chemical injury of the airway and lungs. Experience with six cases, **23**: 538
——, see Smith, R. A., jt. auth.
——, see Thomas, D. M., jt. auth.
Conrad, A., see Winters, W. D., jt. auth.
Consciousness
alteration by nitrous oxide as assessed by electroencephalography and psychological tests (Henrie & others), **22**: 247
correlation of blood levels of 4-hydroxybutyrate and (correspondence), **26**: 694
failure to regain, after general anesthesia (review) (Haugen), **22**: 657
levels and anesthesia (editorial), **22**: 315
state of, correlation of blood levels of 4-hydroxybutyrate with (Helrich and others), **25**: 771
Consent, patient (correspondence), **28**: 1109
Consultant: see under Anesthesiologists
Convulsants
in the cat, electrographic and behavioral study (Tuttle & Elliott), **30**: 48
Convulsions: see also under Seizures
caused by local anesthetics (editorial) (de Jong), **30**: 5
induction of by steroid hormones (Heuser), **28**: 173
phenomena in hyperthermic dogs, during anesthesia (Pittinger & others), **22**: 893
Convulsive properties of Ēthrane, fluroxene, halothane and chloroform anesthesia (abstract), **30**: 343
Cook, A. W., see Schettini, A., jt. auth.
Cook, C. D., see Glauser, E. M., jt. auth.
——, see Motoyama, E. K., jt. auth.
Cook, D. R., Galla, S. J., and Gualtiere, W. S., A safer method for measuring body-fluid compartments in patients (abstract), **30**: 338
——, Galla, S. J., and Gualtiere, W. S., A safer method for measuring body fluid compartments in patients (clinical workshop), **30**: 660
Cook, W. A. Jr., see Price, H. L., jt. auth.
Copper Kettle
chloroform output with (current comment), **23**: 581
halothane impurities (Albin & others), **25**: 672
modification (current comment), **24**: 250
Coolen, J. M. W., see Crul, J. F., jt. auth.
Cooley, D. A., see Strong, M. J., jt. auth.
Cooperman, L. H., Engelman, K., and Mann, P. E. G., Anesthetic management of pheochromocytoma employing halothane and betaadrenergic blockade. A report of 14 cases **28**: 575
——, and Mann, P. E. G., A simple method for direct arterial pressure measurement (current comment), **27**: 93
——, Warden, J. C., and Price, H. L., Splanchnic circulation during nitrous oxide anesthesia and hypocarbia in normal man, **29**: 254
——, see Epstein, R. M., jt. auth.
——, see Price, H. L., jt. auth.
Corbascio, A. N., and Smith, N. T., Hemodynamic effects of experimental hypercitremia, **28**: 510
——, see Smith, N. T., jt. auth.
Corbett, T. H., The gas trap: a device to minimize chronic exposure to anesthetic gases (clinical workshop), **31**: 464
Corbin, R. W., see de Jong, R. H., jt. auth.
Cordotomy: see under Spinal cord

Corn Oil
influence on thiopental action in rats (Winters & others), **23**: 27
Coronary: see under Cardiovascular System; Heart
Corssen, G., and Allen, C. R., Cultured human respiratory epithelium: its use in the comparison of the cytotoxic properties of local anesthetics, **21**: 237
——, and Domino, E. F., Visually evoked responses in man: a method for measuring cerebral effects of preanesthetic medication, **25**: 330
——, Sweet, R. B., and Chenoweth, M. B., Effects of chloroform, halothane, and methoxyflurane on human liver cells *in vitro*, **27**: 155
——, see Domino, E. F., jt. auth.
Cortex: see under Brain
Corticosteroids
for prophylaxis of postintubation inflammation (abstract), **27**: 215
Cortisol
in plasma during ether anesthesia and surgery (Oyama & others), **29**: 559
Cosmi, E. V., and Marx, G. F., The effect of anesthesia on the acid–base status of the fetus (clinical worksho,), **30**: 238
Costa, E., see Diaz, P. M., jt. auth.
——, see Ngai, S. H., jt. auth.
Cotev, S., Lee, J., and Severinghaus, J. W., The effects of acetazolamide on cerebral blood flow and cerebral tissue P_{O_2}, **29**: 471
Cough
mechanism of depression, pulmonary function during spinal anesthesia (Egbert & others), **22**: 882
reflex, intravenous lidocaine as suppressant of (Steinhaus & Gaskin), **24**: 285
suppression, interrelation of, and respiratory depression (abstract), **24**: 127
Council of Academic Societies (report of meeting) (Greene), **30**: 248
Cox, J. M., Anesthesia and glycogen-storage disease (clinical workshop), **29**: 1221
——, see Seleny, F. L., jt. auth.
Cozine, R. A., see Redding, J. S., jt. auth.
Craig, R. G., see Gordon, G. F., jt. auth.
Crandell, D. L., Fox, J. W. C., and Siewers, R. deS., III, Failure to replenish catecholamine stores in reserpinized dogs, **24**: 636
——, see Fox, E. J., jt. auth.
Crandall, W. B., Pappas, S. G., and Macdonald, A., Nephrotoxicity associated with methoxyflurane anesthesia, **27**: 591
Craniotomy
for brain tumor, hyperventilation in (Schettini & others), **28**: 363
Cranium: see Brain; Skull
Crawford, E. W., see Cheney, F. W., jt. auth.
——, see Morgan, B. C., jt. auth.
Crawford, J. S., Distribution and metabolism of thiohexital (correspondence), **31**: 384
Crawford, O. B., Comparative evaluation in peridural anesthesia of lidocaine, mepivacaine and L-67, a new local anesthetic agent, **25**: 321
——, The anesthesiologist's responsibilities in tracheostomy, **22**: 86
Crawford, P. F., (current comment), **22**: 319
Craythorne, B., New York Heart Association Symposium on the Contractile Process (report of meeting), **28**: 639
Craythorne, N. W. B., and Huffington, P. E., Effects of propranolol on the cardiovascular response to cyclopropane and halothane, **27**: 580
——, Rottenstein, H. S., and Dripps, R. D., The effect of succinylcholine on intraocular pressure in adults, infants and children during general anesthesia, **21**: 59
——, Turndorf, H., and Dripps, R. D., Changes in pulse rate and rhythm associated with the use of succinylcholine in anesthetized children, **21**: 465
——, see Yeakel, A. E., jt. auth.
Cricoarytenoid Joint
arthritis, laryngeal obstruction due to (current comment), **27**: 518
Cricothyrotomy
and special cannula for (clinical workshop), **28**: 943
emergency, device for (current comment), **24**: 738
Crino, M. H., and Nagel, E. L., Thermal burns caused by warming blankets in the operating room (clinical workshop), **29**: 149
Cristoforo, M. F., and Brody, M. J., Nonadrenergic vasoconstriction produced by halothane and cyclopropane anesthesia, **29**: 44
——, and Brody, M. J., The effects of halothane and cyclopropane on skeletal muscle vessels and baroreceptor reflexes, **29**: 36
Criswick, V. G., see Dobkin, A. B., jt. auth.
Crocker, J. S., see Miller, E. V., jt. auth.
Croft, P. G., (current comment), **22**: 851
Crosby, R. M. N. (with Hackett, P. R.), Some effects of inadvertent hypothermia in infant neurosurgery, **21**: 356
Crosby, V. G., see Boutros, A. R., jt auth.
Crout, J. R., Sampling and analysis of catecholamines and metabolites, **29**: 661
——, and Brown, B. R., Anesthetic management of pheochromocytoma: the value of phenoxybenzamine and methoxyflurane, **30**: 29
——, see Giesecke, A. H., jt. auth.
Crowe-Davis Gag
modification of (current comment), **24**: 740
Crul, J. F., Succinylcholine neuromuscular block (correspondence), **28**: 791
——, Long, G. J., Brunner, E. A., and Coolen, J. M. W., The changing pattern of neuromuscular blockade caused by succinylcholine in man, **27**: 729
Crumpton, C. W., see Rowe, G. G., jt. auth.

Cryofibrinogenemia, stellate ganglion block in (clinical workshop), **28**: 628
CUDMORE, J. W., see NOEHREN, T. H., jt. auth.
CUEVO, N., see ALBERT, S. N., jt. auth.
Cuffs: see also under Apparatus and Instruments; Endotracheal Tube
inflatable, failure of resulting in foreign body in trachea (current comment), **27**: 512
"uninflatable" inflatable (current comment), **26**: 578
CULLEN, B. F., see CULLEN, S. C., jt. auth.
CULLEN, D. J., EGER, E. I., II, and GREGORY, G., Cardiovascular effects of cyclopropane in man (abstract), **30**: 338; **31**: 398
——, EGER, E. I., II, and GREGORY, G. A., The cardiovascular effects of carbon dioxide in man, conscious and during cyclopropane anesthesia, **31**: 407
——, see EGER, E. I., II, jt. auth.
——, see SMITH, N. T., jt. auth.
CULLEN, S. C., An account of the history of the Journal *Anesthesiology*, **25**: 416
——, Anesthesiologie Internationale (editorial), **24**: 249
——, Attitudes and practices (Editorial), **21**: 322
——, Cybernesthesia (editorial), **24**: 110
——, Monitors and clinical judgment (editorial), **22**: 120
——, Tubular and peripheral vision in the practice of anesthesia (editorial), **22**: 1008
——, EGER, E. I., II, CULLEN, B. F., and GREGORY, P., Observations of the anesthetic effect of the combination of xenon and halothane, **31**: 305
——, see DE JONG, R. H., jt. auth.
——, see DOMINO, E. F., jt. auth.
——, see MUNSON, E. S., jt. auth.
——, see SMITH, R. H., jt. auth.
Curare: see also *d*-Tubocurarine
antagonist, neostigmine as (abstract), **2**; 148; (Wescott & Bendixen), **23**: 324
effects on respiratory response curve (abstract), **23**: 139
how it became a useful drug (Bennett), **28**: 446
-nitrous oxide, effects on postoperative respiratory adequacy (Boutros), **26**: 743
residual curarization (current comment), **26**: 834
revisited (editorial), **24**: 269
sensitivity by patient with undiagnosed myasthenia gravis syndrome (current comment), **27**: 325; (correspondence), **27**: 870
volume-pressure relations of respiratory system in curarized infants (Nightingale & Richards), **26**: 710
Cushing's syndrome adrenalectomy for (clinical workshop), **30**: 574
CUTLER, R. E., see KENNEDY, W. F., jt. auth.
CUTTER, J. A., see MARKELLO, R., jt. auth.
CWIK, J. C., see LUND, P. C., jt. auth.
Cyanosis: see also under Oxygen
increased of tetralogy of Fallot due to positive pressure respiration (abstract), **27**: 217
Cybernetics
cybernesthesia (editorial), **24**: 110
Cyclopropane: see also under Anesthesia
analgesia in obstetrics, clinical and biochemical studies (Shnider & others), **24**: 11
and digitalis synergism with epinephrine (abstract), **23**: 151
anesthesia and operation in infants, acid-base equilibrium during (Reynolds), **27**: 127
anesthesia, cardiac excitability in (Smith & others), **23**: 766
anesthesia, changes in respiratory dead space during (Askrog & others), **25**: 342
anesthesia, effect of vagolytic drugs on ventricular arrhythmias during (abstract), **26**: 264
anesthesia in dog, influence of reserpine on cardiovascular and sympatho-adrenal responses to (Bagwell & others), **25**: 148
anesthesia in dogs, temperature dependence, correlation with theories of anesthetic action (Eger & others), **26**: 764
anesthesia in infants, comparison of spontaneous and controlled breathing during (Freeman & others), **25**: 597
anesthesia, splanchnic circulation during (Price & others), **26**: 312
anesthesia, ventricular tachycardia produced by metaraminol during (Siebecker & others), **22**: 555
arrhythmias in cat, cause, prevention and correction (Robbins & Thomas), **21**: 163
calcium and, effect on Purkinje fibers (Temte & others), **28**: 354
-carbon dioxide arrhythmic threshold in patients with cardiovascular disease (Strong & others), **29**: 295
cardiovascular effects (Cullen & others), **31**: 398
cardiovascular effects in man (abstract), **30**: 338
cardiovascular effects of carbon dioxide during (Cullen & others), **31**: 407
central sympathetic excitation by (Price & others), **30**: 426
combined effect of, and depolarizers on isolated human muscle (Sabawala & Dillon), **22**: 564
concentrations in inspired atmospheres during closed circuit anesthesia (Fabian & others), **22**: 459; (correction), **22**: 1021
differences in effects of ether, halothane and, on components of anesthesia (abstract), **21**: 95
effect of morphine on cardiovascular system of dog anesthetized with (Schull & others), **22**: 199
effect on blood glucose in man (Cervenko & Greene), **28**: 914
effect on blood volume (current comment), **24**: 402; (Grable & others), **23**: 828
effect on catecholamine biotransformation (Gardier & others), **28**: 677
effect on glucose assimilation in man (abstract), **28**: 242
effect on motor nerve activity, **28**: 124
effect on myocardial contraction and membrane potentials (Levy & others), **24**: 185; (current comment), **24**: 256

effect on reflexly induced circulatory responses in dog (Bartelstone & others), **27**: 756
effect on renal function in normal man (Deutsch & others), **28**: 547
effect on ventricular contractile force (abstract), **22**: 145
effects of hypothyroidism and hyperthyroidism on MAC in the rat (abstract), **29**: 197
effects of propranolol on cardiovascular response to (Craythorne & Huffington), **27**: 580
effects of respiration and circulation (Jones & others), **21**: 380
effects on central vasomotor mechanism of dog (Markee & others), **27**: 742
effects on cerebral blood flow and carbohydrate metabolism of man (abstract), **29**: 170
effects on metal functions (James), **30**: 264
effects on oxygen consumption in brain (Matteo & others), **30**: 156
effects on postoperative respiratory adequacy (Boutros), **26**: 743
effects on skeletal muscle and baroreceptor reflexes (Cristoforo & Brody), **29**: 36
effects on total pulmonary resistance (Hickey & others), **31**: 334
effects on vasomotor "center" of dog (Price & others), **26**: 55
effects on ventilation (Munson & others), **27**: 716; (abstract), **27**: 222
enhancement of heart rate responses to sympathetic stimulation (Price & others), **29**: 478
epinephrine and, effect on sodium transport (Anderson), **28**: 438
-epinephrine arrhythmias in dogs, mephentermine and (Elliott), **23**: 762
-epinephrine effects on cardiac rhythm and potassium balance (Gutgesell & others), **29**: 892
-epinephrine effects on Purkinje fibers (Davis & others), **30**: 369
-epinephrine ventricular tachycardia, role of potassium in (Davis & others), **25**: 54
forearm venous and arterial responses to (Caffrey & others), **26**: 786
ganglionic blocking potency (Price & Price), **28**: 349
hemodynamic and central nervous actions of, in dog (Price & others), **24**: 1
"hypertension," caused by respiratory acidosis? (Li & Etsten), **22**: 49
in shock, versus halothane (abstract), **24**: 125
in whole blood, gas chromatographic analysis of (laboratory methods) (Laasberg & Etsten), **26**: 216
infrared carbon dioxide pressure broadening by correction factors for (Severinghaus & others), **22**: 429
inhalation causing vasoconstriction (Cristoforo & Brody), **29**: 44
injection of epinephrine during general anesthesia with (Matteo & others), **24**: 327
intragastric, a potential explosion hazard (clinical workshop), **28**: 771
minimum alveolar concentration (abstract), **27**: 225; (Saidman & others), **28**: 994
minimum alveolar concentration affected by central catecholamine levels (Miller & others), **29**: 1153
minimum alveolar concentration, effects of hyperthyroidism and hypothyroidism on (Munson & others), **29**: 1094
neuromuscular effects (abstract), **26**: 263
non-adrenergic vasoconstriction produced by (abstract), **28**: 242
norepinephrine biosynthesis following (Ngai & others), **31**: 53
norepinephrine levels following (editorial) (Gillis), **31**: 1
norepinephrine uptake and release following (Ngai & others), **31**: 45
percutaneous loss (Stoelting and Eger), **30**: 278
prevention and correction of ventricular arrhythmias by dichloroisoproterenol in dogs anesthetized with (Schull & others), **22**: 444
pulmonary hemodynamic effects (Price & others), **30**: 629
role of H^+ in initiation of epinephrine-induced arrhythmias during cyclopropane anesthesia (abstract), **29**: 194
-succinylcholine anesthesia, intravenous atropine and scopolamine during (Colón-Yordán & Jiménez-Vélez), **23**: 333
teratogenicity in the chicken (Andersen), **29**: 113
-thiopental anesthesia, effect of reserpine on cardiac function during (abstract), **24**: 140
-thiopental anesthesia in dog, effect of reserpine on cardiac function during (Rusy & others), **26**: 14

Cyst
ovarian, and supine hypotensive syndrome (current comment), **27**: 515

Cystic Fibrosis
of pancreas, anesthetic experience in children with (Salanitre & others), **25**: 801
radical approach to therapy for pulmonary complications of (abstract), **26**: 248

CZORNY, V. P. (with LOEHNING, R. W., and UEDA, I.), Effect of phenylephrine on survival and acid-base balance in dogs with acute hemorrhagic hypotension, **21**: 363

D

DALEN, J. E., The effects of diazepam (correspondence), **31**: 196
——, EVANS, G. L., BANAS, J. S., JR., BROOKS, H. L., PARASKOS, J. A., and DEXTER, L., The hemodynamic and respiratory effects of diazepam (Valium), **30**: 259
——, see DEUTSCH, S., jt. auth.
DAL SANTO, G., Kinetics of distribution of radioactive-labeled muscle relaxants. 1. Investigation with C^{14}-dimethyl-*d*-tubocurarine, **25**: 788

——, Kinetics of distribution of radioactive labeled muscle relaxants: III. Investigations with ^{14}C-succinyl*di*choline and ^{14}C-succinyl*mono*choline during controlled conditions, **29**: 435
DAM, W. H., and GULDMANN, N., Inadequate postanesthetic ventilation (review), **22**: 699
D'AMBRUOSO, D. C., see TOVELL, R. M., jt. auth.
DANIEL, S. S., and MORISHIMA, H. O., The estimation of mepivacaine hydrochloride in biological fluids (lab. methods), **28**: 924
——, see MORISHIMA, H. O., jt. auth.
DAOS, F. G., LOPEZ, L., and VIRTUE, R. W., local anesthetic toxicity modified by oxygen and by combination of agents, **23**: 755
——, see LUND, L. O., jt. auth.
DARBY, T. D., see MAHAFFEY, J. E., jt. auth.
Darvon: see *d*-Propoxyphene
DAVENPORT, H. T., AULD, P. A. M., SEKELJ, P., JEGIER, W., and MCGREGOR, M., Hypercarbia during light halothane anesthesia with neuromuscular block, **25**: 307
——, see LIM, H. S., jt. auth.
——, see ROBSON, J. G., jt. auth.
DAVIDSON, G. M., see FOLDES, F. F., jt. auth.
DAVIDSON, I. A., see PRICE, H. L., jt. auth.
DAVIDSON, J. T., Identification of the epidural space (current comment), **27**: 859
——, WASSERMAN, K., and LILLINGTON, G. A., Lung compliance of the rabbit and posturally induced changes in functional residual capacity, **27**: 817
DAVIS, D. A. (with SUGIOKA, K.), Hyperventilation with oxygen—a possible cause of cerebral hypoxia, **21**: 135
——, THORNTON, W., GROSSKREUTZ, D. C., SUGIOKA, K., and MCKNIGHT, R., (current comment), **22**: 1010
——, see SUGIOKA, K., jt. auth.
DAVIS, G., see LOEHNING, R. W., jt. auth.
——, see MILAI, A. S., jt. auth.
——, see SAFAR, P., jt. auth.
DAVIS, H. S., Emerging methods for studying neural mechanisms in man (editorial), **24**: 610
DAVIS, J. H., see MODELL, J. H., jt. auth.
DAVIS, K., see ELLIOTT, H. W., jt. auth.
DAVIS, L. D., HELMER, P. R., and MURPHY, Q. R., Role of potassium in cyclopropane-epinephrine ventricular tachycardia, **25**: 54
——, TEMITE, J. V., and MURPHY, Q. R., Epinephrine-cyclopropane effects on Purkinje fibers, **30**: 369
——, see TEMITE, J. V., jt. auth.
DAVIS, P., and JENICEK, J. A., (current comment), **22**: 1013
DAVIS, T. B., see GALINDO, A. H., jt. auth.
DAW, E. F., see MICHENFELDER, J. D., jt. auth.
DAWES, G. S., Changes in the circulation at birth (review), **26**: 522
DAYTON, P. G., see BRAND, L., jt. auth.
——, see MARK, L. C., jt. auth.
Deadspace: see also Respiration
alveolar, increase following cardiac resuscitation (Suwa & others), **30**: 37
of endotracheal tubes used in infants (Glauser & others), **22**: 339
requirement during artificial ventilation, nomogram for (clinical workshop), **29**: 1206
-to-tidal-volume ratio, effect of anatomic shunt on (clinical workshop), **31**: 575
DEAS, T. C. (with EGBERT, L. D.), Effect of epinephrine upon the duration of spinal anesthesia, **21**: 345
——, see EGBERT, L. D., jt. auth.
Death, asphyxial
roles of acute anoxia, hypercarbia and acidosis (Kristoffersen & others), **28**: 488
DEBON, F. L., see FEATHERSTONE, R. M., jt. auth.
Decamethonium (Syncurine)
mechanism of action (abstract), **29**: 191
neuromuscular blocking actions of, effects of hexafluorenium and edrophonium (Katz & others), **26**: 154
succinylcholine and, neuromuscular block in man (de Jong & Freund), **28**: 583
tachyphylaxis to and reversibility by anticholinesterases (Freund), **30**: 7
DECARLO, J., see MORIKAWA, S., jt. auth.
Decompression sickness, experimental prevention of (abstract), **29**: 180
DEFALQUE, R. J., Compared effects of spinal and extradural anesthesia upon the blood pressure, **23**: 627
——, (current comment), **22**: 125
——, Epidural block (comment), **28**: 786
——, Exaggerated spread of epidural block (current comment), **28**: 229
——, The "specific" analgesic effect of trichlorethylene upon the trigeminal nerve, **22**: 379
——, and STOELTING, V. K., Continuous intercostal blocks (current comment), **25**: 237
DEGIORGI, E. R., Effective valve for inflating an endotracheal tube cuff (current comment), **26**: 227
Dehydrobenzperidol
and phentanyl, respiratory depressant effects of (abstract), **27**: 213
anti-arrhythmic action of (Long and others), **28**: 318
DE JONG, R. H., Axillary block of the brachial plexus, **22**: 215
——, (current comment), **23**: 881
——, Effect of local anesthetics on the myoneural junction (correspondence), **26**: 696
——, Local anesthetic seizures (editorial), **30**: 5
——, Modified axillary block. With block of the lateral antebrachial cutaneous (terminal musculocutaneous) nerve, **26**: 615
——, Multiple autoclaving of commercial local anesthetic solutions containing dilute epinephrine (current comment), **24**: 582
——, Phantom limb (editorial), **25**: 742
——, Tourniquet pain (current comment), **25**: 248
——, and CULLEN, S. C., Buffer-demand and pH of local anesthetic solutions containing epinephrine, **24**: 801

——, and CULLEN, S. C., Theoretical aspects of pain: bizarre pain phenomena during low spinal anesthesia, **24**: 628
——, and FREUND, F. G., Characteristics of the neuromuscular block with succinylcholine and decamethonium in man, **28**: 583
——, and FREUND, F. G., Neuromuscular block with succinylcholine and decamethonium (correspondence), **29**: 166
——, FREUND, F. G., ROBLES, R., and MORIKAWA, K.-I., Anesthetic potency determined by depression of synaptic transmission, **29**: 1139
——, HERSHEY, W. N., and WAGMAN, I. H., Measurement of a spinal reflex response (H-reflex) during general anesthesia in man. Association between reflex depression and muscular relaxation, **28**: 382
——, HERSHEY, W. N., and WAGMAN, I. H., Nerve conduction velocity during hypothermia in man, **27**: 805
——, and NACE, R. A., Nerve impulse conduction and cutaneous receptor responses during general anesthesia, **28**: 851
——, and NACE, R. A., Nerve impulse conduction during intravenous lidocaine injection, **29**: 22
——, and ROBLES, R., Monosynaptic transmission in the cat's spinal cord: a quantitative measure of anesthetic dose, **29**: 887
——, ROBLES, R., and CORBIN, R. W., Central actions of lidocaine—synaptic transmission, **30**: 19
——, ROBLES, R., and MORIKAWA, K.-I., Actions of halothane and nitrous oxide on dorsal horn neurons ("the spinal gate"), **31**: 205
——, ROBLES, R., and MORIKAWA, K.-I., Block of pain transmission by halothane in the spinal cord of the cat (abstract), **30**: 339
——, and WAGMAN, I. H., Physiological mechanisms of peripheral nerve block by local anesthetics (review), **24**: 684
——, see CHURCHILL-DAVIDSON, H. C., jt. auth.
——, see HERSHEY, W. H., jt. auth.
——, see WAGMAN, I. H., jt. auth.
DEKORNFELD, T. J., and LASAGNA, L., A controlled clinical evaluation of two new analgesics, phenazocine and phenampromid, **21**: 159
——, see KIRCH, T. J., jt. auth.
——, see PEARSON, J. W., jt. auth.
DE KREY, J. A., SCHROEDER, C. F., and BUECHEL, D. R., Continuous brachial plexus block (clinical workshop), **30**: 332
DE LAPPE, A., see ELLIOTT, H. W., jt. auth.
DE LEMOS, R., WOLFSDORF, J., NACHMAN, R., BLOCK, A. J., LEIBY, G., WILKINSON, H. A., ALLEN, T., HALLER, J. A., MORGAN, W., and AVERY, M. E., Lung injury from oxygen in lambs: the role of artificial ventilation, **30**: 609
D'ELIA, P. F., see PIERCE, J. A., jt. auth.
Delivery: see also under Birth
  changes in blood volume during (review) (Pritchard), **26**: 393
  effects on newborn, physiologic adjustments at birth (review) (James), **26**: 501
Delivery room, planning (symposium article), (Shnider), **31**: 172
Demerol: see Meperidine
DEMING, M. V., and OECH, S. R., Steroid and antihistaminic therapy for post intubation subglottic edema in infants and children, **22**: 937
DENSON, J. S., see ROBINSON, A., jt. auth.
DENT, S. J., see STEPHEN, C. R., jt. auth.
DE PADUA, C. B., see GRAVENSTEIN, J. S., jt. auth
Depolarizers: see Muscle Relaxants
Depressants
  effects on respiratory carbon dioxide during anesthesia (abstract), **21**: 110
Detergents
  intrathecal (editorial), **23**: 123
  intrathecal, experimental study (Smith & Conner), **23**: 5
DEUTSCH, E. V., (current comment), **22**: 122
DEUTSCH, S., and DALEN, J. E., Digitalis and heart disease (correspondence), **31**: 583
——, and DALEN, J. E., Indications for prophylactic digitalization (medical intelligence), **30**: 648
——, GOLDBERG, M., and DRIPPS, R. D., Postoperative hyponatremia with the inappropriate release of antidiuretic hormone, **27**: 250
——, GOLDBERG, M., STEPHEN, G. W., and WU, W.-H., Effects of halothane anesthesia on renal function in normal man, **27**: 793
——, LINDE, H. W., DRIPPS, R. D., and PRICE, H. L., Circulatory and respiratory actions of halothane in normal man, **23**: 631
——, PIERCE, E. C., JR., and VANDAM, L. D., Cyclopropane effects on renal function in normal man, **28**: 547
——, see BASTRON, R. D., jt. auth.
——, see EPSTEIN, R. M., jt. auth.
——, see JONES, R. E., jt. auth.
——, see PRICE, H. L., jt. auth.
——, see WILLIAMS, C. H., jt. auth.
DEVAULT, MARION; GREIFENSTEIN, F. E., and HARRIS, L. C., JR., Circulatory responses to endotracheal intubation in light general anesthesia—the effect of atropine and phentolamine, **21**: 360
DEVLOO, R. A., see PATRICK, R. T., jt. auth.
DEXTER, L., see DALEN, J. E., jt. auth.
Dextans
  anaphylaxis with use of (case report) (current comment), **25**: 244
  microcirculatory blood flow and use of (Wells). **24**: 828
  use in surgery and medicine (review) (Atik), **27**: 425
Diabetes Mellitus
  physiology and pharmacology in: guiding the patient through surgical period (review) (Marble & Steinke), **24**: 442
Diagnosis
  procedures, hazards of anesthesia for (editorial), **21**: 553

XUM

DIAMOND, L. K., The philosophy of the use of blood and blood products (introduction to symposium), **27**: 359
DIAZ, P. M., NGAI, S. H., and COSTA, E., The effects of cyclopropane, halothane and diethyl ether on the cerebral metabolism of serotonin in the rat, **29**: 959
——, see NGAI, S. H., jt. auth.
Diazepam
effects (correspondence) (Weaver; Dalen), **31**: 196
hemodynamic and respiratory effects (Dalen & others), **30**: 259
Dibucaine
reversible depression of hippocampus by long-term injection in monkeys (abstract), **28**: 258
Dichlorohexafluobutene
concentration in clinical vaporizers (Nagel & others), **27**: 673
Dichlorohexafluorobutene
chemistry and toxicology of (Cohen & others), **26**: 140
Dichloroisoproterenol
prevention and correction of ventricular arrhythmias by, in dogs anesthetized with cyclopropane (Schull & others), **22**: 444
DICKINSON, G. L., see THOMAS, D. M., jt. auth.
Diethyl Ether: see also under Anesthesia; Ether
analgesia quantitative study of *d*-Tubocurarine during (Tiers & Artusio), **21**: 256
and halothane anesthesia, comparison of, extracorporeal circulation and endogenous epinephrine and norepinephrine in plasma, atrium and urine (Anton & others): **25**: 262
and lactate dehydrogenase activity (Greene & Spencer), **24**: 23
anesthesia and surgery, ACTH and cortisol levels in plasma during (Oyama & others), **29**: 559
anesthesia, cardiac excitability in (Smith & others), **23**: 766
anesthesia (extreme), circulatory and electroencephalographic effects (Pearcy), **23**: 605
anesthesia, hemodynamics and blood volume during operation with, and unreplaced blood loss (Theye & Tuohy), **25**: 6
anesthesia in dog, influence of reserpine on cardiovascular and sympatho-adrenal responses to (Bagwell & others), **25**: 15
blood and tissue levels in dogs (Chenoweth & others), **23**: 101
content in blood as determined by gas chromatography (Noehren & Cudmore), **22**: 519
controversy revisited (current comment), **25**: 560
convulsion, respiratory gas studies with (case report) (current comment), **25**: 580
differential effects on right and left myocardial function (Shimosato & others), **28**: 874
disposing of waste cans (current comment), **24**: 255
effect on bleeding volume variations in dogs (Marcus & others), **23**: 671
effect on force of contraction of rat heart (Paradise & Bibbins), **31**: 349
effect on tracheal smooth muscle (Fletcher & others), **29**: 517
effects on blood during operation (Schweizer & others), **28**: 814
effects on carbohydrate metabolism in skeletal muscle (Brunner), **30**: 24
effects on firefly luciferin bioluminescence (Ueda), **26**: 603
effects on oxygen consumption in brain (Matteo & others), **30**: 156
effects on Pa_{CO_2} in dogs with and without nerve blocks (Muallem & others), **30**: 185
effects on postoperative respiratory adequacy (Boutros), **26**: 743
effects on ventilation (Larson & others), **30**: 174
effects on ventilation in dogs with or without nerve block (abstract), **28**: 264
-halothane azeotrope, cardiovascular and respiratory effects of, and halothane in dogs (Dobkin & others), **21**: 13
-halothane mixtures, physical chemistry of (Hall & others), **21**: 522
-halothane ratios, determination by infrared spectrometry (abstract), **23**: 143
hemodynamic actions (Jones & others), **23**: 299
hemodynamic effects of (Kubota & others), **23**: 306
in blood, quantitative analysis of (Rackow & others), **27**: 829
infants anesthetized with, hazard of placing in incubators (current comment), **24**: 119
intravenous, uptake and distribution (abstract), **23**: 144
lack of hydrate formation (Eger & Shargel), **30**: 136
method for determination (current comment), **21**: 222
methoxyflurane and, comparative effects of in man (abstract), **28**: 259
minimum alveolar concentration (abstract), **27**: 225
mode of action in blocking neuromuscular transmission (Karis & others), **27**: 42
pulmonary surfactant in lung extracts of patients receiving (clinical workshop), **28**: 1089
rapid blood determinations using gas chromatography (abstract), **24**: 122
screen and chin holder (current comment), **25**: 570
screen for pediatric anesthesia (current comment), **21**: 325
solubility (current comment), **25**: 247
solubility in water, blood and oil (Eger & others), **24**: 676
uptake and distribution of (Eger & others), **23**: 647
uptake and metabolism in the mouse (Cohen & Hood), **31**: 61
vaporizer, explosion of (Walter), **27**: 681
DI FAZIO, C. A., and CHEN, P. Y., A modified EHN spirometer for oxygen consumption (clinical workshop), **29**: 1226

——, see HOFFMAN, J. C., jt. auth.
——, see MUNSON, E. S., jt. auth.
Diffusion anoxia: reappraisal (Frumin & Edelist), **31**: 243
DI GIOVANNI, A. J., A technique for selective blockade of the medial antebrachial cutaneous nerve (clinical workshop), **20**:
——, Reversal of a chloral hydrate-associated cardiac arrhythmia by a beta-adrenegic blocking agent (clinical workshop), **31**: 93
Digitalis
and cyclopropane synergism with epinephrine (abstract), **23**: 151
digitalized heart during halothane anesthesia (Shimosato & Etsten), **24**: 41
heart disease and (correspondence) (Strong & Keats; Deutsch & Dalen), **31**: 583; 584
intoxication, effect of lidocaine on (abstract), **28**: 272
Digitalization
against the negative inotropic effect of halothane in dogs (abstract), **23**: 150
prophylactic, indications for (medical intelligence) (Deutsch & Dalen), **30**: 648
prophylactic, value in halothane anesthesia (Goldberg & others), **23**: 207
Digoxin
pretreatment, effect on heart contractile force during thiopental infusion in dogs (Goldberg & others), **22**: 974
DILLON, J. B., see SABAWALA, P. B., jt. auth.
——, see WALTS, L. F., jt. auth.
——, see WEISMAN, H., jt. auth.
Dimethyl-*d*-tubocurarine
kinetics of distribution of radioactive labeled (C^{14}) (Dal Santo), **25**: 788
Distribution: see under names of specific agents and compounds
Diuresis
antidiuretic effect of phenazocine (Calesnick & Milligan), **23**: 81
DIVEKAR, V. M., and SIRCAR, B. N., Anesthetic management in Treacher-Collin's syndrome (current comment), **26**: 692
Divinyl Ether
blood/gas partition coefficient of (current comment), **25**: 406
pulmonary exchange in man (Salanitre & others), **28**: 535
DIXON, K. L., see NUNN, J. F., jt. auth.
DIXON, W. M., see MORROW, D. H., jt. auth.
DNA synthesis, effect of halothane on (Bruce & Traurig), **30**: 401
DOBKIN, A. B., Potentiation of thiopental anesthesia by derivatives and analogues of phenothiazine, **21**: 292
——, Prolongation of thiopental-induced sleep in dogs by narcotic analgesics, **22**: 291
——, Urinary epinephrine and norepinephrine during Innovar-nitrous oxide anesthesia (correspondence), **29**: 167
——, and CRISWICK, V. G., Circulatory response to tilt with narcotic analgesics in normal healthy male subjects, **22**: 398
——, and FEDORUK, S., Comparison of the cardiovascular, respiratory and metabolic effects of methoxyflurane and halothane in dogs, **22**: 355
——, HARLAND, J. H., and FEDORUK, S., Comparison of the cardiovascular and respiratory effects of halothane and the halothane-diethyl ether azeotrope in dogs, **21**: 13
——, HARLAND, J. H., and FEDORUK, S., Trichlorethylene and halothane in a precision system: comparison of cardiorespiratory and metabolic effects in dogs, **23**: 58
——, HEINRICH, R. G., ISRAEL, J. S., LEVY, A. A., NEVILLE, J. F., JR., and OUNKASEM, K., Clinical and laboratory evaluation of a new inhalation agent: Compound 347 (CHF_2-O-CF_2-CHFCl), **29**: 275
——, and PALKO, D., The antisialogogue effect of phenothiazine derivatives: comparison of promazine, levomepromazine, trifluoperazine, proclorperazine, methdilazine and prothipendyl, **21**: 260
——, and SONG, Y., The effect of methoxyflurane-nitrous oxide anesthesia on arterial pH, oxygen saturation, P_{aCO_2} and plasma bicarbonate in man, **23**: 601
DOMINO, E. F., Effects of preanesthetic and anesthetic drugs on visually evoked responses, **28**: 184
——, and CORSSEN, G., Central and peripheral effects of muscarinic cholinergic blocking agents in man, **28**: 568
——, GOTTLIEB, S. F., BRAUER, R. W., CULLEN, S. C., and FEATHERSTONE, R. M., Effects of xenon at elevated pressures in the dog, **25**: 43
——, see CORSSEN, G., jt. auth.
DOMINO, E. G., see CARSON, R. P., jt. auth.
DON, H. F. and ROBSON, J. G., Effect of mechanical stimulation of the lower airway on respiratory mechanics in apneic anesthetized man, **27**: 284
——, and ROBSON, J. G., The mechanics of the respiratory system during anesthesia. The effects of atropine and carbon dioxide, **26**: 168
DONNELLY, C. C. (with STONE, H. H.), The anesthetic significance of serotonin secreting carcinoid tumors (review), **21**: 203
——, see STONE, H. H., jt. auth.
Doppler transducer: see under Apparatus and equipment
Doriden: see Glutethimide
DORNETTE, W. H. L., see POE, M. F., jt. auth.
Dorsal horn neurons, effects of halothane and nitrous oxide (de Jong & others), **31**: 205
DOS, S. J., NAHAS, G. G., and PAPPER, E. M., Experimental correction of hypercapnic intracranial hypertension, **23**: 46

Dowdy, E. G., and Kaya, K., Studies of the mechanism of cardiovascular responses to CI-581, **29**: 931
——, and Moore, W. T., Droperidol and fentanyl combination: effect on the human labyrinth, **30**: 604
Downes, H., Hyperventilation and abdominal reflex inhibition in the rat, **24**: 615
Downes, J. J., Wilson, J. F., and Goodson, D., Apnea, suction, and hyperventilation: effect on arterial oxygen saturation, **22**: 29
——, Wood, D. W., Striker, T. W., and Haddad, C., Acute respiratory failure in infants with bronchiolitis, **29**: 426
——, see Bonica, J. J., jt. auth.
——, see Nicodemus, H. F., jt. auth.
Downs, S. (with Hall, K. D., and Norris, F.), Physical chemistry of halothane-ether mixtures, **21**: 522
Doxapram (Stimulexin)
  respiratory stimulant in anesthetized man (Sanchez-Salazar & others), **24**: 808
  test, new techniques for differential diagnosis of apnea (abstract), **26**: 265
Drinker, A. S., and Helrich, M., Halothane anesthesia in the paraplegic patient (current comment), **24**: 399
Drinker, P. A., see Brown, S. A., jt. auth.
Dripps, R. D., Patient consent (correspondence), **28**: 1109; **29**: 603
——, Research: the environment for maximal development, **25**: 440
——, (with Cannard, T. H.; Helwig, J., Jr., and Zinsser, H. F.), The electrocardiogram during anesthesia and surgery, **21**: 194
——, (with Craythorne, N. W. B., and Rottenstein, H. S.), The effect of succinylcholine on intraocular pressure in adults, infants and children during general anesthesia, **21**: 59
——, (with Craythorne, N. W. B., and Turndorf, H.), Changes in pulse rate and rhythm associated with the use of succinylcholine in anesthetized children, **21**: 465
——, (with Jones, R. E., & others), Cyclopropane anesthesia. III. Effects of cyclopropane on respiration and circulation in normal man, **21**: 380
——, (participant-panel discussion), What is the significance of hypercarbia or hypocarbia in the anesthetized patient? **21**: 759
——, see Deutsch, S., jt. auth.
——, see Eckenhoff, J. E., jt. auth.
——, see Holderness, M. C., jt. auth.
——, see Jones, R. E., jt. auth.
——, see Long, G., jt. auth.
——, see Sechzer, P. H., jt. auth.
——. see Williams, C. H., jt. auth.
Droperidol (R4749)
  circulatory and respiratory response to tilt with (abstract), **26**: 253
Droperidol and fentanyl combination: see also Innovar
  circulatory and respiratory response to tilt with (abstract), **26**: 253
  effect on labyrinth (Dowdy & Moore), **30**: 604
  effects on pain thresholds (clinical workshop), **29**: 834
Drowning
  chlorinated fresh water, effects of volume aspirated (Modell & Moya), **27**: 662
  effects of aspiration in near-drowning (Modell & others), **29**: 456
  electrolyte changes in (Modell & Davis), **30**: 414; (Modell & others), **30**: 421
  near, physiologic effects with chlorinated fresh water, distilled water and isotonic saline (Modell & others), **27**: 33
  resuscitation from (abstract), **21**: 113
Drugs: see also under names of specific compounds; Anesthetics
  adrenergic, interaction with anesthetic agents to produce cardiac arrhythmias (Katz & Epstein), **29**: 763
  effect on respiratory response to carbon dioxide (review) (Bellville & Seed), **21**: 727
  effects on carotid blood flow in dogs with closed chest cardiac massage (abstract), **27**: 212
  effects on uterine contractility (review) (Friedman), **26**: 409
  employed in anesthesia, metabolism of (review) (Greene), **29**: 127, 327
  evaluation for cardiac resuscitation (Redding & Pearson, **24**: 203
  evaluation for sedation, hypnosis, amnesia and narcotic potentiation during labor (abstract), **21**:114
  for premedication, use of psychogalvanic reflexes in evaluation of (abstract), **22**:130
  neurotropic, effects upon electrical activity of midbrain tegmentum (abstract), **21**: 115
  new (editorial) (Adriani), **27**: 715
  of dogs and men (editorial) (Flacke), **26**: 277
  purity of (editorial) (Friedman), **26**: 131
  response of fetus and newborn of (review) (Nyhan & Lampert), **26**: 487
  uptake, distribution and placental transport of (review) (Moya & Smith), **26**: 465
  used in anesthesia, placental transfer of (review) (Marx), **22**: 294
  used in pregnancy, effects on availability of fetal cerebral oxygen (Misrahy & others), **24**: 198
  various, influence on cardiac excitability (abstract), **24**: 141
  vasoactive, effects on reticuloendothelial system in experimental shock (Hershey & Altura), **30**: 144
DuBois, A. B., Oxygen toxicity (review), **23**: 473
——, see Conner, E. H.. jt. auth.
——, see Smith, T. C., jt. auth.
Dudziak, R., see Podlesch, I., jt. auth.
Duffy, J. P., see Wilger, R. N., jt. auth
Dulfano, M. J., see Segal, M. S., jt. auth
Dull, H. B., see Mosley, J. W., jt. auth.

DUNBAR, B. S., OVASSAPIAN, A., and SMITH, T. C., The effects of methoxyflurane on ventilation in man, **28**: 1020
DUNBAR, R. W., see MAZZE, R. I., jt. auth.
DUNCALF, D., and FOLDES, F. F., The use of radioiodinated serum albumin to confirm accidental intravascular insertion of epidural catheters (current comment), **25**: 564
DUNCALF, D., and KEPES, E. R., Permanent nerve block with the aid of an image intensifier (clinical workshop), **29**: 600
——, see FOLDES, F. F., jt. auth.
——, see KUWABARA, S., jt. auth.
DUNDEE, J. W., see MOORE, J., jt. auth.
DUNN, A. L., see WILGER, R. N., jt. auth.
DURELL, R., see LIVINGSTON, M., jt. auth.
DURST, G. G., JR., see BAGWELL, E. E., jt. auth.
DUVOISIN, P. M. (with STEPHEN, C. R.), Laboratory and clinical experiences with glutethimide, **21**: 482
DYKES, M. H. M., Adrenalectomy for Cushing's syndrome—paroxysmal tachycardia and a unique tumor (clinical workshop), **30**: 574
——, Prolonged anesthesia, overcurarization, and resection of the abdominal wall (current comment), **28**: 231
——, and FULLER, J. E., Post-transfusion pulmonary edema in surgical patients: etiology, and therapeutic use of trimethaphan camphorsulfonate (clinical workshop), **30**: 101

E

EAKINS, K. E., see KATZ, R. L., jt. auth.
——, see LORD, C. O., jt. auth.
EAKINS, T.
"clinics," anesthetists in (annals of history) (Eckenhoff), **26**: 663
EALES, L., Porphyria and thiopentone (correspondence), **27**: 703
Ear
middle, effect of nitrous oxide on (Waun and others), **28**: 846
middle, pressure, effect of nitrous oxide on (clinical workshop), **28**: 948
Early Treatment of Severe Burns (conference) (meeting report), **28**: 472
EASTWOOD, D. W., see BERRY, F. A., jt. auth.
——, see GREEN, C. D., jt. auth.
——, see HERONIMUS, T. W., III, jt. auth.
——, see WILLIAMS, G. S., jt. auth.
EBERT, P. A., see GREENFIELD, L. J., jt. auth.
EBNER, H., see PHILLIPS, O. C., jt. auth.
ECCLES, J. C., Functional organization of the spinal cord, **28**: 31
——, Preface (editorial), **28**: 2
ECKENHOFF, J. E., Anesthesia and the levels of consciousness (editorial), **22**: 315
——, Australian Society of Anaesthetists (report of meeting), **30**: 580
——, Introduction to Symposium—Carbon Dioxide and Man, **21**: 585
——, Midwest Anesthesia Conference IV (report of meeting), **29**: 218
——, The anesthetists in Thomas Eakins' "clinics" (annals of history), **26**: 663
——, *The New England Journal of Medicine* (editorial), **23**: 386
——, KNEALE, D. H., and DRIPPS, R. D., The incidence and etiology of postanesthetic excitement (review), **22**: 667
——, see ASKROG, V. F., jt. auth.
——, see BRUCE, D. L., jt. auth.
——, see PREVOZNIK, S. J., jt. auth.
ECKSTEIN, J. W., HAMILTON, W. K., and MCCAMMOND, J. M., The effect of thiopental on peripheral venous tone, **22**: 525
——, see CAFFREY, J. A., jt. auth.
ECONOMOPOULOS, B., see ALBERT, S. N., jt. auth.
ED50 of halothane in children and adults (Nicodemus & others), **31**: 344
EDELIST, G., Extreme obesity (clinical workshop), **29**: 846
——, and ORKIN, L. R., Evaluation of a rebreathing tube for preventing atelectasis (current comment), **28**: 211
——, and OSORIO, A., Postanesthetic initiation of spontaneous ventilation after passive hyperventilation, **31**: 222
——, SINGER, M. M., and EGER, E. I., II, Solubility coefficients of teflurane in various biological media, **25**: 223
——, and ZAUDER, H. L., Bedside measurement of carbon dioxide responses (clinical workshop), **28**: 624
——, see FRUMIN, M. J., jt. auth.
Edema
angioneurotic, following *d*-tubocurarine administration (Westgate & others), **22**: 286
postintubation subglottic, in infants and children, steroid and antihistaminic therapy for (Deming & Oech), **22**: 933
post-transfusion pulmonary in surgical patients (clinical workshop), **30**: 101
Editorial commentary, scientific functions (Mark; Editorial Board of ANESTHESIOLOGY), **29**: 851
Edrophonium (Tensilon)
effects on neuromuscular blocking actions of succinylcholine, decamethonium, Imbretil and *d*-tubocurarine (Katz and others), **26**: 154
neuromuscular effects in man (Katz), **28**: 327
Education
audio (editorial), **21**: 81
cultural component (editorial), **24**: 421
one method of teaching anesthesia to medical students (Smith & Cullen), **24**: 68
postgraduate (editorial), **23**: 577
use of data tape recording as teaching aid (current comment), **26**: 679
EDWARDS, G. T., and COBB, S., (current comment), **23**: 396
EGBERT, L. D., Tourniquet pain (current comment), **25**: 247

——, and DEAS, T. C., Cause of pain from a pneumatic tourniquet during spinal anesthesia, **23**: 287
——, DEAS, T. C., Effect of epinephrine upon the duration of spinal anesthesia, **21**: 345
——, LAVER, M. B., BENDIXEN, H. H., Intermittent deep breaths and compliance during anesthesia in man, **24**: 57
——, and MITCHELL, G. D., Technical problems of studying intravenous anesthetics in man, **22**: 186
——, TAMERSOY, K., and DEAS, T. C., Pulmonary function during spinal anesthesia: the mechanism of cough depression, **22**: 882
EGER, E. I., II, A second lung (editorial), **29**: 401
——, Atropine, scopolamine, and related compounds (review), **23**: 365
——, (current comment), **22**: 852
——, Effect of inspired anesthetic concentration on the rate of rise of alveolar concentration, **24**: 153
——, Factors affecting the rapidity of alteration of nitrous oxide concentration in a circle system, **21**: 348
——, Light halothane anesthesia (current comment), **25**: 876
——, On the variation of anesthetic potency with vapor pressure (correspondence), **29**: 1065
——, Pressure effect on the vaporizer (current comment), **24**: 742
——, Solubility of diethyl ether (current comment), **25**: 247
——, The uptake of ethylene in man (editorial), **26**: 279
——, Uptake of methoxyflurane in man at constant alveolar and at constant inspired concentration, **25**: 284
——, BABAD, A. A. REGAN, M. J., LARSON, C. P., JR., SHARGEL, R., and SEVERINGHUAS, J. W., Delayed approach of arterial to alveolar nitrous oxide partial pressures in dog and in man, **27**: 288
——, and BRANDSTATER, B., Solubility of methoxyflurane in rubber, **24**: 679
——, BRANDSTATER, B., SAIDMAN, L. J., REGAN, M. J., SEVERINGHAUS, J. W., and MUNSON, E. S., Equipotent alveolar concentrations of methoxyflurane, halothane, diethyl ether, fluroxene, cyclopropane, xenon and nitrous oxide in the dog. **26**: 771
——, and EPSTEIN, R. M., Hazards of anesthetic equipment, **25**: 490
——, and ETHANS, C. T., The effects of inflow, overflow, and valve placement on economy of the circle system, **29**: 93
——, and GUADAGNI, N. P., Halothane uptake in man at constant alveolar concentration, **24**: 299
——, HYLTON, R. R., IRWIN, R. H., and GUADAGNI, N., Anesthetic flow meter sequence—a cause for hypoxia (current comment), **24**: 396
——, JOHNSON, E. A., LARSON, C. P., JR., and SEVERINGHAUS, J. W., The uptake and distribution of intravenous ether, **23**: 647
——, KRAFT, E. D., and KEASLING, H. H. A comparison of atropine, or scopolamine, plus pentobarbital, meperidine, or morphine as pediatric preanesthetic medication, **22**: 962
——, LARSON, C. P., JR., and SEVERINGHAUS, J. W., The solubility of halothane in rubber, soda lime and various plastics, **23**: 356
——, LUNDGREN, C., MILLER, S. L., and STEVENS, W. C., Anesthetic potencies of sulfur hexafluoride, carbon tetrafluoride, chloroform and Ethrane in dogs: correlation with the hydrate and lipid theories of anesthetic action, **30**: 129
——, SAIDMAN, L. J., and BRANDSTATER, B., Minimum alveolar anesthetic concentration: a standard of anesthetic potency, **26**: 756
——, SAIDMAN, L. J., and BRANDSTATER, B., Temperature dependence of halothane and cyclopropane anesthesia in dogs: correlation with some theories of anesthetic action, **26**: 764
——, and SEVERINGHAUS, J. W., Effect of uneven pulmonary distribution of blood and gas on induction with inhalation anesthetics, **25**: 620
——, and SEVERINGHAUS, J. W., The rate of rise of $P_{A_{CO_2}}$ in the apneic anesthetized patient, **22**: 419
——, and SHARGEL, R. O., The lack of hydrate formation at a temperature of 0 C of methoxyflurane, halothane, diethyl ether and fluroxene, **30**: 136
——, and SHARGEL, R., The solubility of methoxyflurane in human blood and tissue homogenates, **24**: 625
——, SHARGEL, R., and MERKEL, G., Solubility of diethyl ether in water, blood and oil, **24**: 676
——, see BABAD, A. A., jt. auth.
——, see BRIDGES, B. E., JR., jt. auth.
——, see CULLEN, D. J., jt. auth.
——, see CULLEN, S. C., jt. auth.
——, see EDELIST, G., jt. auth.
——, see EISELE, J. H., jt. auth.
——, see GREGORY, G. A., jt. auth.
——, see KADIS, L. B., jt. auth.
——, see LARSON, C. P., JR., jt. auth.
——, see MERKEL, G., jt. auth.
——, see MILLER, R. D., jt. auth.
——, see MUALLEM, M., jt. auth.
——, see MUNSON, E. S., jt. auth.
——, see REGAN, M. J., jt. auth.
——, see SAIDMAN, L. J., jt. auth.
——, see SEVERINGHAUS, J. W., jt. auth.
——, see SMITH, N. T., jt. auth.
——, see STOELTING, R. K., jt. auth.
EGGERS, G. W. N., JR., METZGAR, M. T., and PLUMLEE, J. E., Axillary block and sedation for cardiac catheterization (clinical workshop), **28**: 936
——, see WALKER, J. A., jt. auth.
EIDE, K. A., see BRUCE, D. L., jt. auth.

Eisele, J. H., Eger, E. I., II, and Muallem, M., Narcotic properties of carbon dioxide in the dog, **28**: 856
——, Trenchand, D., Stubbs, J., and Guz, A., Immediate circulatory effects of anesthesia in conscious dogs (abstract), **30**: 339
——, see Larson, C. P., Jr., jt. auth.
Elam, J. O., (participant-panel discussion), What is the significance of hypercarbia or hypocarbia in the anesthetized patient? **21**: 759
——, see Brown, E. S., jt. auth.
——, see Ruben, H. M., jt. auth.
Elavil: see Amitriptyline
Electrical Anesthesia: see under Anesthesia
Electrical apparatus, see Apparatus and equipment
Electrical Charges
indicator (current comment), **21**: 83
Electrical Currents, Effects of Diffuse, on Physiological Mechanisms, with Application to Electroanesthesia and Electrosleep (report of meeting) (Henschel), **29**: 606
Electrical stimulation, paired, and halothane, effects on isolated heart muscle (abstract), **30**: 341
Electro-anesthesia: see Electronarcosis
Electrocardiography; see under Heart
Electroconvulsive Treatment
localized-convulsion in (current comment), **23**: 266
Electrocystometry
by percutaneous cervical nerve-root stimulation (abstract), **29**: 202
Electrodes
Beckman Po_2, membrane mounting aid for (current comment), **26**: 685
Electroencephalogram
as monitor of arterial blood levels of methoxyflurane (Wolfson and others), **28**: 1003
in recording recovery cycles of click-evoked potentials from cat auditory cortex (Kitahata), **29**: 523
Electroencephalography: see under Brain
Electrolytes: see also under names of specific substances after fresh-water aspiration (Modell & others), **30**: 421
balance during pregnancy (review) (Little), **26**: 400
balance, postoperative changes in (review) (McMurrey & Law), **22**: 819
during aortic-valve replacement (Moffitt & others), **31**: 310
in drowning victims (Modell & Davis), **30**: 414
Electromyogram
integrated abdominal, monitoring muscular relaxation by (Fink), **21**: 178
Electromyograph: see under Muscles
Electronarcosis
alternating plus direct current (abstract), **23**: 164
and electrosleep, effects of diffuse electrical currents on physiologic mechanisms (report of meeting), **29**: 606
by combination of direct and alternating current (Smith & others), **22**: 163; (current comment), **22**: 851
by combination of direct and alternating current, microscopic and EEG study of dog brain (Smith & others), **22**: 970
combination of direct and alterating current, electrodes and electrode holders (Smith & Cullen), **23**: 682
comparison of electrical parameters and the quality of (Klemm & O'Leary), **25**: 776
electrocardiographic studies during (Gowing & others), **25**: 668
for surgical patients, clinical experiences (abstract), **23**: 145
induced with experimental apparatus (translation), **21**: 215
square-wave electrical anesthesia current generator (current comment), **25**: 718
stimulus, amplitude, frequency, duration, and wave form in production (abstract), **23**: 163
Electron Microscopy
of dog brain, electrical anesthesia by direct and alternating currents (Smith & others), **26**: 607
Electrosleep and Electroanesthesia, First International Symposium (report of meeting), **28**: 638
El Etr, A. A., Relief of arterial spasm by epidural block in a sympathectomized patient (clinical workshop), **28**: 1107
——, and Salem, M. R., Circulatory embarrassment in patients with large diaphragmatic hernias (clinical workshop), **29**: 164
——, see Salem, M. R., jt. auth.
——, see Titel, J. H., jt. auth.
Elizondo-Martel, see Lasser, E. C., jt. auth.
Elliott, H. W., Mephentermine and cyclopropane-epinephrine arrhythmias in dogs, **23**: 762
——, Fisher, C. W., de Lappe, A., Davis, K., and Botnik, E., Propiomazine, pentobarbital, hydroxyzine, and placebo: double-blind comparison of sedative effects, **31**: 233
——, see Tuttle, W. W., jt. auth.
Ellis, D. W. (with Greisheimer, E. M.; Krumperman, L. W., and Rusy, B. F.), Comparison of effects of phenazocine and meperidine on respiration, **21**: 370
Embolism
air (current comment), **23**: 398
air, pathological physiology of (abstract), **28**: 240
air, venous, detection of by carbon dioxide monitoring (abstract), **29**: 178
air, venous, effect of nitrous oxide on (Munson and Merrick), **27**: 783
massive pulmonary (current comment), **24**: 590
Embolus
amniotic fluid (review) (Shnider and Moya), **22**: 108
phenomena of operative and postoperative period (review) (Patrick and Devloo), **22**: 751
Emergencies
anesthetic, synoptic interpretation of ECG and EEG in anesthetic (Leonhardt), **22**: 918
Emory, E. R. J., (current comment), **23**: 398
Emesis: see Vomiting
Emotions

XUM

responses of patients to surgery and anesthesia (Sheffer and Greifenstein), **21**: 502
Emphysema
ventilation of patient during anesthesia (abstract), **24**: 126
Emulsions
intravenous anesthetic, use in animals and man (current comment), **22**: 491
ENDAHL, G. L., see GARDIER, R. W., jt. auth.
Endobronchial Anesthesia: see Anesthesia, endobronchial
Endocrine Function
diagnosis and treatment of renal hypertension of humoral origin (review) (Merrill), **24**: 479
effect of carbon dioxide on neurohumoral and endocrine mechanisms (review) (Tenney), **21**: 674
effects of anesthetics on response of microcirculation to circulating humors (review) (Baez & Orkin), **24**: 568
effects of preanesthetic medication, anesthesia and hypothermia on response to injury (review) (Van Brunt & Ganong), **24**: 500
endocrine consequences of hypophysectomy (review) (Pearson), **24**: 563
hyperparathyroidism and hypoparathyroidism: preoperative and postoperative care (review) (Bernstein & Guri), **24**: 448
iatrogenic adrenal cortical insufficiency (review) (Nelson), **24**: 457
introduction to Symposium, **24**: 423
neuroendocrine and other effects on carbohydrate-metabolism during anesthesia (review) (Bunker), **24**: 515
pharmacologically active brain substances and relation to endocrine effects (review) (Way & Sutherland), **24**: 543
pharmacology of reserpine and implications for anesthesia (review) (Alper & others), **24**: 524
pheochromocytoma: diagnosis and anesthetic and surgical management (review) (Goldfien), **24**: 462
physiologic, pharmacologic and therapeutic consideration in surgery for hyperthyroidism (review) (Selenkow & Hollander), **24**: 425
physiology and pharmacology in diabetes mellitus (review) (Marble & Steinke), **24**: 442
preoperative and postoperative management of adrenal cortical hyperfunction (review) (Cahill & Thorn), **24**: 472
renal effects of anesthesia and operation mediated by endocrines (review) (Hayes & Goldenberg), **24**: 487
Endoscopy, peroral anesthesia for (review) (Proctor), **29**: 1025
Endotoxin shock: see under Shock
Endotracheal Catheters
modified (current comment), **22**: 319
occlusion of (case report) (current comment), **22**: 124
Endotracheal Intubation: see Intubation, endotracheal
Endotracheal Spray
for relief of bronchospasm (current comment), **27**: 860
Endotracheal Tube: see also under Apparatus
cuff, new air valve (current comment), **26**: 112
cuff, effective valve for inflating (current comment), **26**: 227
effects on postoperative sore throats of two analgesics and lubricants used with (current comment), **26**: 681
experience with gas (absolute) sterilized (abstract), **21**: 103
modified disposable (current comment), **23**: 716
obstructed (case report) (current comment), **25**: 581
reinforced, diversion of air from cuff balloon producing (current comment), **27**: 513
schema for selection in children (current comment), **25**: 398
swivel-joint (current comment), **23**: 716
universal adapter (current comment), **25**: 727
used in infants, pressure-flow characteristics and dead spaces of (Glauser & others), **22**: 339
Endplate, motor: see Muscle
ENGEL, H. L., Time constants in Anesthesiology (correspondence), **28**: 636
ENGEL, K., see SIGGAARD-ANDERSEN, O., jt. auth.
ENGELMAN, K., see COOPERMAN, L. H., jt. auth.
Environment
factors and anesthesia (symposium), **25**: 416
Ephedrine
blood pressure response to, effect of adrenal medullary blockade on (abstract), **22**: 139
effect on heart rate (Gravenstein & Perkins), **27**: 298
Epidural analgesia, physiology and pharmacology of (Bromage), **28**: 592
Epidural Anesthesia: see under Anesthesia
Epidural block
(comment), **28**: 786
exaggerated spread of (current comment), **28**: 229
Epidural Catheters
indwelling, bacteriological culture of (Barreto), **23**: 643
Epidural Needle: see under Needle
Epidural Space
identification of (current comment), **27**: 859
Epiglottitis, acute, managed with nebulized epinephrine delivered by IPPB (clinical workshop), **31**: 581
Epilepsy
effects of thiopental on temporal lobe epilepsy (Brazier), **28**: 192
Epinephrine: see also Catecholamines
augmentation of artificial circulation during cardiopulmonary resuscitation (Harris & others), **28**: 730
buffer-demand and pH of local anesthetic solutions containing epinephrine (de Jong & Cullen), **24**: 801
cardiac rhythm and vocal vasoconstrictor effects (Katz), **26**: 619

cyclopropane and digitalis synergism with (abstract), **23**: 151
cyclopropane and, synergistic effect on sodium transport (Anderson), **28**: 438
-cyclopropane arrhythmias in dogs, mephentermine and (Elliott), **23**: 762
-cyclopropane effects on Purkinje fibers (Davis & others), **30**: 369
-cyclopropane ventricular tachycardia, role of potassium in (Davis & others), **25**: 54
effect during halothane anesthesia (abstract), **23**: 152
effect of cyclopropane on biotransformation (Dardier & others), **28**: 677
effect on dog heart during methoxyflurane anesthesia (Bamforth & others), **22**: 169
effect upon duration of spinal anesthesia (Egbert & Deas), **21**: 345
effects on myocardium subjects to cyclopropane (Gutgesell & others), **29**: 892
endogenous, and norepinephrine in plasma, atrium and urine, extracorporeal circulation and, comparison of ether and halothane anesthesia (Anton & others), **25**: 262
-halothane arrhythmias, prevention by adrenergic β-receptor blockade (abstract), **25**: 101
-hydrocarbon disturbance (editorial), **23**: 388
-induced arrythmias, effect of carbon dioxide and acid-base changes (Ueda & others), **23**: 342
infiltration of, during general anesthesia with halogenated hydrocarbons (abstract), **23**: 156
injection during general anesthesia with cyclopropane (Matteo & others), **24**: 327
injection during general anesthesia with halothane (Katz & others), **23**: 597
injection during general anesthesia with trichlorethylene (Matteo & others), **23**: 360
lidocaine and, cardiovascular and renal hemodynamic effects (Kennedy & others), **31**: 414
multiple autoclaving of commercial local anesthetic solutions containing dilute (current comment), **24**: 582
nebulized, in management of acute epiglottitis (clinical workshop), **31**: 581
sodium bicarbonate and, in cardiac resuscitation (abstract), **25**: 105
tetracaine and, effects in rabbit spinal cord (abstract), **29**: 176
urinary, during Innovar-nitrous oxide anesthesia (Giesecke & others), **28**: 701
Epithelium: see under Cells
Epstein, B. S., see Epstein, J. A., jt. auth.
Epstein, J. A., Epstein, B. S., and Surks, S., A new needle for controlled spinal drainage (current comment), **25**: 242
Epstein, R. A., Jackson, S. H., and Wyte, S. R., The effects of nondepolarizing relaxants and anticholinesterases on the neuromuscular refractory period of anesthetized man, **31**: 69
——, and Panter, G. G., Giant ovarian cyst and the supine hypotensive syndrome (current comment), **27**: 515
——, Wang, H., and Bartelstone, H. J., The effects of halothane on circulatory reflexes of the dog, **29**: 867
——, Wyte, S. R., Jackson, S., and Sitter, S., The effects of muscle relaxants and anticholinesterases on the neuromuscular refractory period in anesthetized man (abstract), **30**: 340
——, Wyte, S. R., Jackson, S. H., and Sitter, S., The electromechanical response to stimulation by the Block-Aid Monitor, **30**: 43
——, see Jackson, S. H., jt. auth.
——, see Katz, R. L., jt. auth.
——, see Wang, H., jt. auth.
Epstein, R. M., For oxygen security (editorial), **31**: 299
——, Deutsch, S., Cooperman, L. H., Clement, A. J., and Price, H. L., Splanchnic circulation during halothane anesthesia and hypercapnia in normal man, **27**: 654
——, Rackow, H., Lee, A. S. J., and Papper, E. M., Prevention of accidental breathing of anoxic gas mixtures during anesthesia, **23**: 1
——, Rackow, H., Salanitre, E., and Wolf, G. L., Influence of the concentration effect on the uptake of anesthetic mixtures: the second gas effect, **25**: 364
——, see Eger, E. I., II, jt. auth.
——, see Price, H. L., jt. auth.
——, see Salanitre, E., jt. auth.
Equipment: see Apparatus and Equipment
Erley, D. S., see Chenoweth, M. B., jt. auth.
Ernst, E. A., Construction of a human spinal canal model (clinical workshop), **28**: 939
——, *In vitro* changes of osmolality and density of spinal anesthetic solutions, **29**: 104
——, and Perez-Zamora, P., Water vapor pressure in blood and tissues (laboratory observations), **31**: 272
——, and Smith, J. C., A pharmacogenetic study of a family exhibiting atypical and "silent" genes for plasma cholinesterase, **28**: 1085
Ersoz, C. J., see Hedden, M., jt. auth.
Ervin, F., see Folkman, J., jt. auth.
Erwin, K. W. (with Blackmore, W. P.; Wiegand, O. F., and Lipsey, R.), Renal and cardiovascular effects of halothane, **21**: 489
Erythrocytes
facilitated transfer of halothane in (Greene & Webb), **31**: 548
human, permeability to monosaccharides and inhalation anesthetics (Greene), **26**: 731
Erythropoiesis: see under Blood
Escarraga, L. A. (with Bellville, J. W., and others), Relative respiratory depressant effects of oxymorphone (Numorphan) and morphine, **21**: 397
Escue, H. H., see Mazze, R. I., jt. auth.
Esophagus
rupture, following insertion of nasogastric tube (clinical workshop), **28**: 782

XUM

skeletal muscle and rectal temperatures during general anesthesia and operation (Wollman & Cannard), **21**: 476
ETHANS, C. T., see EGER, E. I., jt. auth.
Ethchlorvynol poisoning, gas liquid chromatography in management (clinical workshop), **30**: 107
Ether: see also under Divinyl ether; Hexafluorodiethyl ether; Diethyl Ether
anesthesia, effects of warming blood for transfusions during (Morris & Trachtenberg), **29**: 1174
blood tensions, spectrophotometric method for analysis (abstract), **21**: 94
concentration in inspired atmospheres during closed circuit anesthesia (Fabian & others), **22**: 459; (correction), **22**: 1021
differences in effects of cyclopropane, halothane and, on components of anesthesia (abstract), **21**: 95
effect on ventricular contractile force (abstract), **22**: 145
fluorinated Compound 347, evaluation (Dobkin & others), **29**: 275
historical note (current comment), **21**: 88
inexpensive system for administration (current comment), **22**: 323
minimum alveolar concentration (Saidman & others), **28**: 994
new hook (current comment), **22**: 322
percutaneous loss (Stoelting & Eger), **30**: 278
Ethrane
anesthetic potency (Eger and others), **30**: 129
compared with halothane (clinical workshop), **31**: 370
convulsive properties (abstract), **30**: 343
effect on left ventricle (abstract), **30**: 351
effect on myocardial mechanics (Shimosato & others), **3**: 506
effects (correspondence) (Saidman; Shimosato), **31**: 386
Ethyl alcohol
effect on pulmonary surfactant (Modell & others), **30**: 164
Ethyl-N-(bis(2,2-dimethylethylenimido) phosphoro Carbamate
prolonged apnea following succinylcholine administration in cancer patients receiving (abstract), **24**: 142; (Wang & Ross), **24**: 363
Ethylene
combined with halothane, additive effect (Miller & others), **31**: 301
uptake (Salanitre & others), **26**: 305; (correspondence), **26**: 579
uptake in man (editorial) (Eger), **26**: 279
Ethylene Oxide
sterilization (correspondence), **27**: 703
sterilization, hazards (abstract), **30**: 349
ETSTEN, B. (with LI, T. H., and RHEINLANDER, H. F.), Circulatory changes due to open pneumothorax in surgical patients, **21**: 171
——, and SHIMOSATO, S., Halothane anesthesia and catecholamine levels in a patient with pheochromocytoma (current comment), **26**: 688
——, see LAASBERG, L. H., jt. auth.
——, see LI, T.-H., jt. auth.
——, see LINDSLEY, O. R., jt. auth.
——, see OVADIA, L. O., jt. auth.
——, see REYNOLDS, R. N., jt. auth.
——, see SHIMOSATO, S., jt. auth.
——, see SUGAL, N., jt. auth.
ETTER, L. E., see PRIMAN, J., jt. auth.
EUBANKS, D., see SAKLAD, M., jt. auth.
EVANS, G. L., see DALEN, J. E., jt. auth.
EVERSOLE, U. H., Intrathecal detergents (editorial), **23**: 123
Excitement
incidence and etiology of postanesthetic (review) (Eckenhoff), **22**: 667
Exercise helmet: see under Apparatus and equipment
Exhalations, passive (Bergman), **30**: 378
Experimental results (commentary) (Price), **29**: 57
Experiments: see under Research
Explosions
anesthetic, continuing threat (Walter), **25**: 505
flammability of Fluoromar in circle absorption system (Gramling & Volpitto), **24**: 194
Extracellular Fluid Space
measurement with sodium selenate labeled with ^{75}Se (abstract), **27**: 206
Extracorporeal Circulation: see under Oxygenator
Extradural Anesthesia: see under Anesthesia
Extravasation
of phenylephrine, cutaneous slough after (current comment), **23**: 587
Eyes
effect of carbon dioxide on intraocular pressure in anesthetized man (abstract), **25**: 99
effect of succinylcholine on intraocular pressure during general anesthesia (Craythorne & others), **21**: 59
fundoscopic, ophthalmodynamometric, and tonometric observations during anesthesia and cardiopulmonary bypass in man (abstract), **28**: 247
intraocular pressure produced by succinylcholine, effects of hexafluorenium in preventing (Katz & others), **29**: 70
intraocular pressure produced by succinylcholine, effects of non-depolarizing muscle relaxants in inhibiting (Miller & others), **29**: 123
oculo-cardiac reflex, prevention in children, comparison of retrobulbar block and intravenous atropine (Taylor & others), **24**: 646
retina in dying and resuscitation (abstract), **29**: 189
EZI-ASHI, T. I., see NUNN, J. F., jt. auth.

F

FABIAN, L. W., E. A. Rovenstine Memorial Lecture (Introduction), **29**: 314
——, BOX, J., CARNES, M. A., and SMITH, D. P., Concentration of halothane, ether and cyclopropane in inspired atmospheres during closed circuit anesthesia, **22**: 459; (correction), **22**: 1021

——, see SMITH, S. L., jt. auth.
Facilitated transfer of halothane in human erythrocytes (Green & Webb), **31**: 548
FAIRLEY, H. F., see LAMONT, H., jt. auth.
FAIRLEY, M. B., see SELLERY, G. R., jt. auth.
FARHI, L. E., and RAHN, H., Dynamics of changes in carbon dioxide stores (review), **21**: 604
FARHIE, S. E., see NGAI, S. H., jt. auth.
FARNHAM, M., see MUNSON, E. S., jt. auth.
Fasciculation
succinylcholine, prevention with local anesthetics (Wikinski & others), **26**: 3; (correspondence), **25**: 696
FAULCONER, A. (participant-panel discussion), What is the significance of hypercarbia or hypocarbia in the anesthetized patient? **21**: 759
FAULCONER, A., JR., A consideration of control in research (editorial), **23**: 384
FEATHERSTONE, R. M., Protein binding of anesthetic molecules (editorial), **24**: 607
——, MUEHLBAECHER, C. A., DEBON, F. L., and FORSAITH, J. A., Interactions of inert anesthetic gases with proteins, **22**: 977
——, see DOMINO, E. F., jt. auth.
FEDORUK, S. (with DOBKIN, A. B., and HARLAND, J. H), Comparison of the cardiovascular and respiratory effects of halothane and the halothane-diethyl ether azeotrope in dogs, **21**: 13
——, see DOBKIN, A. B., jt. auth.
FEGAN, F. J., see GOTTLIEB, S. F., jt. auth.
FEINBERG, G. L., and RAVIN, M. D., Multiple general anesthesias, gastroesophageal reflux and spontaneous esophageal rupture (clinical workshop), **28**: 782
FEINGOLD, A., and IVANKOVIC, A., Sustained hypertension during Innovar and Innovar-N_2O anesthesia (clinical workshop), **31**: 476
——, see LOWE, H. J., jt. auth.
FEIST, J., see TENICELA, R., jt. auth.
FELDMAN, D. J., see KATZ, J., jt. auth.
FELTS, J. A., (current comment), **22**: 1014
Fentanyl
and droperidol, effects on pain thresholds (clinical workshop), **29**: 834
scopolamine and, respiratory pharmacology (Stephen & others), **31**: 237
FERRIS, B. G., JR., Shunts and breathing patterns (editorial), **27**: 533
——, and FRANK, N. R., Air pollution and disease, **25**: 470
Fetal-maternal relations: see also Obstetrics
acute hydration for preventing hypotension of spinal anesthesia in parturients (clinical workshop), **29**: 374
effect of changes in maternal pH and P_{CO_2} on the P_{O_2} of fetal lambs (Motoyama & others), **28**: 891
kinetics of transfer of lidocaine across human placenta (Shnider & Way), **29**: 944
maternal hyperventilation during labor (editorial) (James), **28**: 805
passage of lidocaine across placenta (abstract), **28**: 246
placental clearance of mepivacaine following administration to guinea-pig fetus (Morishima & Adamsons), **28**: 343
placental transfer of thiobarbiturates (Kosaka & others), **31**: 489
vasopressor correction of fetal acidosis following spinal hypotension (abstract), **29**: 210
Fetus
cerebral oxygen, effects of drugs used in pregnancy on availability of (Misrahy & others), **24**: 198
electrocardiography (review) (Hon), **26**: 477
heart beat, audiovisual demonstration (abstract), **21**: 106
newborn and, effect of pain relief for labor and delivery on (review) (James), **21**: 405
response to drugs (review) (Nyhan & Lampert), **26**: 487
thermal homeostasis in (review) (Adamsons & Towell), **26**: 531
Fever
convulsive phenomena in hyperthermic dogs during anesthesia (Pittinger & others), **22**: 893
Fibrinolysis
and afibrinogenemia (review) (Sherry), **27**: 465
FIELDER, D. L., NELSON D. C., ANDERSEN, T. W., and GRAVENSTEIN, J. S., Cardiovascular effects of atropine and neostigmine in man, **30**: 637
FIELDMAN, S. A., COHEN, E. N., and GOLLING, R. C., The excretion of gallamine in the dog, **30**: 593
FINCH, J. S., and CARTER, S. H., Isolated neurologic deficit following spinal anesthesia (clinical workshop), **28**: 785
FINCK, A. J., see GRABLE, E., jt. auth.
FINK, B. R., A method of monitoring muscular relaxation by the integrated abdominal electromyogram, **21**: 178
——, An American anesthesiologist in Moscow, **28**: 764
——, Conference on Drug Metabolism (report of meeting), **30**: 116
——, Conference on Neurophysiology in Relation to Anesthesiology, Foreword (editorial), **28**: 1
——, Patient consent (correspondence), **28**: 1109
——, Pneumatic monitor for arterial blood pressure (current comment), **24**: 872
——, Time constants in anesthesiology (mathematical commentary), **27**: 838; (correspondence), 637
——, and KENNY, G. E., Metabolic effects of volatile anesthetics in cell culture, **29**: 505
——, KENNY, G. E., and SIMPSON, W. E., III, Depression of oxygen uptake in cell culture by volatile, barbiturate, and local anesthetics, **30**: 150
——, NGAI, S. H., and HANKS, E. C., The central regulation of respiration during halothane anesthesia, **23**: 200
——, see BASFORD, A. B., jt. auth.
——, see HANKS, E. C., jt. auth.
——, see HOECH, G. P., JR., jt. auth.

XUM

FINLEY, T. N., Anesthesia and atelectasis (editorial), **29**: 863
FINSTER, M., and LEAVITT, S. J., (current comment), **23**: 876
——, see MORISHIMA, H. O., jt. auth.
——, see POPPERS, P. J., jt. auth.
Fire
flammability of Fluoromar in circle absorption system (Grambling & Volpitto), **24**: 194
hazard in operating room (current comment), **27**: 858
with nonflammable anesthetic agents (case report) (current comment), **22**: 498
First aid
evaluation of Elder Demand Valve Resuscitator in (clinical workshop), **28**: 623
First International Symposium on Electrosleep and Electroanesthesia (report of meeting), **28**: 638
FISCH, H. J., see LEAR, E., jt. auth.
FISCHER, H. W., see HAMILTON, W. K., jt. auth.
FISHER, A., see BRISTOW, J. D., jt. auth.
FISHER, C. W., see ELLIOTT, H. W., jt. auth.
Fistulas
tracheoesophageal following use of cuffed tracheostomy tubes (clinical workshop), **31**: 281
FIVEHOUSE, N. R., and WATSON, R. L., Hyperthermia caused by the Emerson postoperative ventilator (clinical workshop), **29**: 1220
FLACKE, W., Of dogs and men (editorial), **26**: 277
——, and ALPER, M. H., Actions of halothane and norepinephrine in the isolated mammalian heart, **23**: 793
——, see ALPER, M. H., jt. auth.
——, see FLETCHER, S. W., jt. auth.
——, see GARFIELD, J. M., jt. auth.
——, see RUTLEDGE, C. O., jt. auth.
Flame Ionization
detection of volatile organic anesthetics in blood, gases and tissues (Lowe), **25**: 808
Flammability
of fluroxene (current comment), **26**: 825
of halothane, methoxyflurane and fluroxene under hyperbaric oxygen conditions (current comment), **27**: 195
FLEISCH, J. H., see ALPER, M. H., jt. auth.
FLEISCHER, S., The metabolic production of carbon dioxide (Review), **21**: 597
FLEISCHLI, G., and COHEN, E. N., An analog computer simulation for the distribution of *d*-tubocurarine, **27**: 64
FLETCHER, G., and BARBER, J. L., Lung mechanics and physiologic shunt during spontaneous breathing in normal subjects, **27**: 638
——, see BAUMAN, J., jt. auth.
FLETCHER, G., see CAVE, P., jt. auth.
FLETCHER, S. W., FLACKE, W., and ALPER, M. H., The actions of general anesthetic agents on tracheal smooth muscle, **29**: 517
Flicker: see under Brain
FLICKINGER, H., see HAMPTON, L. J., jt. auth.
Flowmeter
anesthetic, sequence, cause for hypoxia (current comment), **24**: 396
square-wave electromagnetic, studies of coronary arterial flow using (abstract), **24**: 128
Fluid
absorption during transurethral prostatic resection (abstract), **23**: 152
various, Ostwald solubility coefficients for anesthetic gases in (Larson & others), **23**: 686
Fluid compartments
measurement (abstract), **30**: 338
measurement (clinical workshop), **30**: 660
Fluorinated Anesthetics: see Anesthetics, fluorinated
Fluoromar: see Fluroxene; Trifluoroethylvinyl Ether
Fluothane: see Halothane
Fluroxene (Fluoromar): see also under Anesthesia
cost of anesthesia with (current comment), **25**: 236
effects on ventilation (Munson & others), **27**: 716; (abstract), **27**: 222
flammability of (current comment), **26**: 825
flammability under hyperbaric oxygen conditions (current comment), **27**: 195
lack of hydrate formation (Eger & Shargel), **30**: 136
minimum alveolar concentration (abstract), **27**: 225
minimum concentration of, effect of nitrous oxide and morphine (Munson & others), **26**: 134
solubility in blood and tissue homogenates (Munson & others), **25**: 638
uptake at constant alveolar and inspired concentrations (Munson & others), **26**: 8
FOLDES, F. F., BRODMAN, E. B., KRANZLER, H. N., UNDERWOOD, P. S., and HENSWORTH, B. A., The effects of germine diacetate on the rat phrenic nerve-diaphragm preparation, **31**: 522; (abstract), **30**; 340
——, BROWN, I. M., and LUNN, J. N., The influence of solvent on the myoneural effects of intramuscular succinylcholine, **23**: 213
——, DAVIDSON, G. M., KLONYMUS, D. H., DUNCALF, D., and MATSUZAKI, T., The use of trimethylammoniumcaproylcholine for the maintenance of surgical relaxation, **25**: 173
——, FOLDES, V. M., SMITH, J. C., and ZSIGMOND, E. K., The relation between plasma cholinesterase and prolonged apnea caused by succinylcholine, **24**: 208
——, HILLMER, N. R.; MOLLOY, R. E., and MONTE, A. P., Potentiation of the neuromuscular effect of succinylcholine by hexafluorenium, **21**: 50
——, and MCNALL, P. G., Myasthenia gravis: a guide for anesthesiologists (review), **23**: 837
——, MONTE, A. P., BRUNN, H. M. JR., and WOLFSON, B., Studies with muscle relaxants in unanesthetized subjects, **22**: 230
——, SCHAPIRA, M., TORDA, T. A. G., DUNCALF, D., and SHIFFMAN, H. P., Studies on the specificity of narcotic antagonists, **26**: 320

——, Wolfson, B., and Sokoll, M., The use of toxiferine for the production of surgical relaxation, **22**: 93
——, see Duncalf, D., jt. auth.
——, see Torda, T. A. G., jt. auth.
Foldes, V. M., see Foldes, F. F., jt. auth.
Folkman, J., Winsey, S., and Moghul, I., Anesthesia by diffusion through silicone rubber (new approach to analgesia and anesthesia), **29**: 410
——, Mark, V. H., Ervin, F., Suematsu, K., and Hagiwara, R., Intracerebral gas anesthesia by diffusion through silicone rubber (new approach to analgesia and anesthesia), **29**: 419
Forbes, A. M., Behar, M. G., and Smith, T. C., Analysis of oxygen, carbon dioxide and nitrous oxide mixtures with the Scholander apparatus (lab. methods), **28**: 928
Forbes, J., see Rehder, K., jt. auth.
Force-velocity relations as index of myocardial contractility (Shimosato), **31**: 327
Foregger, R., John Snow's early research on carbon dioxide, **21**: 20
——, Lavoisier's research on carbon dioxide and its control, **23**: 662
——, Respiratory apparatus of Theodore Schwann (annals of history), **27**: 187
Forrest, W. H., Jr., and Bellville, J. W., The effect of sleep plus morphine on the respiratory response to carbon dioxide, **25**: 137
Forsaith, J. A., see Featherstone, R. M., jt. auth.
Fortner, R. W. F., see Hornbein, T. F., jt. auth.
Foster, P. A., and Martinez, L., The performance of the Engström ventilator (current comment), **27**: 504
Fowler, E., see Smith, R. H., jt. auth.
Fowler, W. S., see Theye, R. A., jt. auth.
Fox, E. J., Fox, J. W. C., and Crandell, D. L., An unusual cause of hypoxia under anesthesia (current comment), **27**: 867
Fox, J. W. C., see Crandell, D. L., jt. auth.
——, see Fox, E. J., jt. auth.
Frank, N. R., see Ferris, B. G., Jr., jt. auth.
Franks, D. P., and Cockett, A. T., Local hypothermia of the urinary bladder during transurethral surgery, **22**: 15
Frederickson, E. L., see Levy, J. V., jt. auth.
Freedman, G., see Allen, G. D., jt. auth.
Freeman, A., St. Pierre, M., and Bachman, L., Comparison of spontaneous and controlled breathing during cyclopropane anesthesia in infants, **25**: 597
——, see Richards, C. C., jt. auth.
Freeman, E., see Gold, M. I., jt. auth.
——, see Rusy, B. F., jt. auth.
Fresh-water aspiration, serum electrolytes after (Modell & Davis), **30**: 414; (Modell & others), **30**: 421
Freund, F. G., Tachyphylaxis to decamethonium and reversibility of the block by anticholinesterase drugs, **30**: 7
——, Bonica, J. J., Ward, R. J., Akamatsu, T. J., and Kennedy, W. F., Jr., Ventilatory reserve and level of motor block during high spinal and epidural anesthesia, **28**: 834
——, Martin, W. E., and Hornbein, T. F., The H-reflex as a measure of anesthetic potency in man, **30**: 642
——, see de Jong, R. H., jt. auth.
——, see Hornbein, T. F., jt. auth.
——, see Martin, W. E., jt. auth.
Friedman, A. R., and Orkin, L. R., Inexpensive venous pressure manometer (current comment), **25**: 726
Friedman, E. A., Effects of drugs on uterine contractility (review), **26**: 409
Friedman, L., Purity of drugs (editorial), **26**: 131
Friend, J. W., Halothane and hepatic necrosis (current comment), **24**: 743
Friesen, G. A., Functional programming and planning for the operating suite: location, traffic flow, supply lines (symposium article), **31**: 107
Fromberg, H. F.; Mannheimer, W. H., and Keats, A. S., Succinyldicholine esterase activity in stored citrated blood, **21**: 64
Frumin, M. J., spinal anesthesia using a 32-gauge needle, **30**: 599
——, (participant-panel discussion), What is the significance of hypercarbia or hypocarbia in the anesthetized patient? **21**: 759
——, and Edelist, G., Diffusion anoxia: a critical reappraisal, **31**: 243
Fujimori, M., and Virtue, R. W., The value of oxygenation prior to induced apnea, **21**: 46
——, see Tanaka, R., jt. auth.
Fukushima, K., see Ueda, I., jt. auth.
Fuller, E. M., (current comment), **22**: 642
Fuller, J. E., see Dykes, M. H. M., jt. auth.
Furano, E. S., and Greene, N. M., Metabolic breakdown of thiopental in man determined by gas chromatographic analysis of serum barbiturate levels, **24**: 796
Furnas, D. W., Topical refrigeration and frost anesthesia (annals of history), **26**: 344
Fused monitor cable: see under Apparatus and equipment
Fuson, R. L., Saltzman, H. A., Starmer, C. F., and Smith, W. W., Nomogram for oxygen content, saturation and pressure at hyperbaric conditions (theory of hyperbaric oxygenation), **27**: 176

G

G suit: see Compression, circumferential pneumatic
Gadsden, R. H., McCord, W. M., Woods, E. F., and Bagwell, E. E., Gas chromatographic determination of methoxyflurane in blood, **23**: 831
——, see Bagwell, E. E., jt. auth.
Gaensler, E. A., see Prowse, C. M., jt. auth.
Gaffney, T. E., see Goldberg, A. H., jt. auth.
——, see Morrow, D. H., jt. auth.

Gag
Crowe-Davis, modification (current comment), **24**: 740
Gain, E. A. (current comment), **23**: 590
Galasso, J., (current comment), **23**: 716
Gale, A. S., The comparative and additive effects of methylphenidate and bemegride, **22**: 210
Galindo, A., and Baldwin, M., Intracranial pressure and internal carotid blood flow during halothane anesthesia in the dog, **24**: 313
——, and Davis, T. B., Succinylcholine and cardiac excitability, **23**: 32
——, see Pace-Floridia, A., jt. auth.
Gall, E. A., Report of the Pathology Panel, National Halothane Study (special communication), **29**: 233
Galla, S. J., Schwarzbach, R., and Buccigrossi R., A computer program for analysis of anesthetic records (clinical workshop), **30**: 565
——, see Cook, D. R., jt. auth.
——, see Safar, P., jt. auth.
Gallamine
duration of action (Walts & Dillon), **29**: 499
effects on neuromuscular refractory period in anesthetized man (Epstein & others), **31**: 69
excretion in the dog (Feldman & others), **30**: 593
in inhibiting increase in intraocular pressure produced by succinylcholine (Miller & others), **29**: 123
sympathomimetic effect on the heart (abstract), **29**: 179
use in renal failure (Churchill-Davidson & others), **28**: 540
Gallozzi, E., An unusual cause of laryngeal obstruction (clinical workshop), **28**: 784
Galvanic Skin Response
preanesthetic drug evaluation with (abstract), **25**: 110
Gamble, C., see Chen, P.-Y., jt. auth.
——, see Li, T.-H., jt. auth.
——, see Shimosato, S., jt. auth.
Gamma-Aminobutyrylcholine
derivatives: see under Muscle Relaxants
Gamma radiation: see under Radiation
Ganglion
blockade, influence of and vasopressor drugs on elimination of waterload and histologic appearance of kidney (abstract), **21**: 91
stimulants, effects of halothane on responses to (Alper & others), **31**: 429
Ganglionic blocking potencies of anesthetics (Price & Price), **28**: 349
Ganglionic transmission, see under Nervous system
Ganong, W. F., see Van Brunt, E. E., jt. auth.
Garber, V., see Ravin, M. B., jt. auth.
Garcia, A., and Cherniack, N. S., Integrated phrenic activity in hypercapnia and hypoxia, **28**: 1029
Gardier, R. W., Endahl, G. L., and Hamelberg, W., Cyclopropane: Effect on catecholamine biotransformation, **28**: 677
——, see Moster, W. G., jt. auth.
Garfield, J. M., Alper, M. H., Gillis, R. A., and Flacke, W., A pharmacological analysis of ganglionic actions of some general anesthetics, **29**: 79
Garofalo, M. L., see Pierce, J. A., jt. auth.
Garrison, F. W., see Sweeney, D. F., jt. auth.
Gas chromatography: see also under Blood gas exchange; Chromatography, gas
analytical method for anesthesiology research (Summers & Adriani), **22**: 100
determination of hydrocarbon anesthetics in blood by (Butler & others), **28**: 760
determination of lidocaine and prilocaine in whole blood (Keenaghan), **29**: 110
determination of mepivacaine in blood (Pratt & others), **28**: 432
determination of mepivacaine in blood and urine (laboratory methods) (Maes & others), **30**: 657
(laboratory methods) (Asling & others), **31**: 458
direct injection method for in measurement of inhalation anesthetics in whole blood and tissues (Yokota & others), **28**: 1064
ethyl ether content in blood as determined by (Noehren & Cudmore), **22**: 519
management of ethchlorvynol poisoning (clinical workshop), **30**: 107
Gas exchange: see also blood gas exchange
effect of preanesthetic drugs on in man (Smith & others), **28**: 883
effects of varying respiratory wave forms on (Bergman), **28**: 390
Gas Machine
notice (current comment), **24**: 887
Gas mixtures
analysis of gases in with Scholander apparatus (Forbes & others), **28**: 928
in respiratory therapy, nomograms for (clinical workshop), **29**: 830
Gas trap: see under Apparatus and equipment
Gases: see also under names of specific agents or procedures; Second Gas effect; Anesthesia
anesthetic, in brain, effects of hyperventilation on cerebral anesthetic equilibration (Munson & Bowers), **28**: 377
anesthetic, Ostwald solubility coefficients for, in various fluids and tissues (Larson & others), **23**: 686
anoxic mixtures, prevention of accidental breathing during anesthesia (Epstein & others), **23**: 1
blood, influence of tidal exchange during IPPB on, in anesthetized humans (abstract), **28**: 254
chromatographic determination of methoxyflurane in blood (Gadsden & others), **23**: 831
computer program for volume reduction tables (Borgstedt & others), **27**: 185
effect of expiratory resistance on blood gas tensions (Cheney & others), **28**: 670
hydrocarbon, effects of prolonged inhalation on rats (abstract), **28**: 238

inert anesthetic, interactions with proteins (Featherstone & others), **22**: 977
influence of velocities and concentrations on match-blowing-out time (current comment), **25**: 392
placental transfer (review) (Metcalfe), **26**: 460
Respiration analysis of halothane in, by gas chromatography (Rutledge & others), **24**: 862
GASKIN, L., see STEINHAUS, J. E., jt. auth.
Gasserian ganglion block: see under Nerve block
GASSNER, S., and BEN-HUR, N., An unusual case of respiratory obstruction (current comment), **26**: 687
GASTON, L. W., see WESSLER, S., jt. auth.
Gastric: see also under Stomach
aspiration, value in managing a comatose child (clinical workshop), **31**: 478
GAUB, M., see MODELL, J. H., jt. auth.
GAUTHIER, J. (current comment), **22**: 493
GEDANG, I., (current comment), **22**: 323
GEDDES, L. A., HOFF, H. E., VALLBONA, C., HARRISON, G., SPENCER, W. A., and CANZONERI, J., Numerical indication of indirect systolic and diastolic blood pressures, heart and respiratory rate (current comment), **25**: 861
GEFFIN, B., and PONTOPPIDAN, H., Reduction of tracheal damage by the prestretching of inflatable cuffs (clinical workshop), **31**: 462
——, see SUWA, K., jt. auth.
General Anesthesia: see Anesthesia, general
Genetics: see Pharmacogenetics
GERACI, R. P., Continuous stellate ganglion block (clinical workshop), **28**: 632
GERBERSHAGEN, H. U., and BERGMAN, N. A., The effect of *d*-tubocurarine on respiratory resistance in anesthetized man, **28**: 981
——, see KENNEDY, W. F., jt. auth.
GERECKE, W. B., A simplified, trouble-free transducer holder (current comment), **28**: 213
Germine diacetate
as an antagonist of depolarizing and nondepolarizing neuromuscular blocking agents in man (abstract), **29**: 850
effects on rat phrenic-nerve-diaphragm preparation (abstract), **30**: 340; (Foldes & others), **31**: 522
GIAMMOMA, S. T., see MODELL, J. H., jt. auth.
GIARMAN, N. J., and ROTH, R. H., Correlation of blood levels of 4-hydroxybutyrate and consciousness (correspondence), **26**: 694
GIBSON, E. L., see RAVIN. M. B., jt. auth.
GIESECKE, A. H., Urinary epinephrine and norepinephrine during Innovar-nitrous oxide anesthesia (correspondence), **29**: 168
——, JENKINS, M. T., CROUT, J. R., and COLLETT, J. M., Urinary epinephrine and norepinephrine during Innovar-nitrous oxide anesthesia in man, **28**: 701
GIESECKE, A. H., JR., see STANLEY, V. F., jt auth.
GILBERT, J. D., see SHIMOSATO, S., jt. auth.
GILLIES, A. J., see BORGSTEDT, H. H., jt. auth.
——, see COLGAN, F. J., jt. auth.
GILLIS, C. N., Cyclopropane anesthesia and plasma norepinephrine levels (editorial), **31**: 1
——, see NAITO, H., jt. auth.
GILLIS, R. A., see GARFIELD, J. M., jt. auth.
GILSON, W. E., (current comment), **22**: 123
GINGRICH, T. F., Spinal epidural hematoma following continuous epidural anesthesia (clinical workshop), **29**: 162
GIRGIS, K. Z., see KEATS, A. S., jt. auth.
GISSEN, A. J., KARIS, J. H., and KATZ, R. L., Succinylcholine neuromuscular block (correspondence), **28**: 791
——, and KATZ, R. L., Twitch, tetanus and posttetanic potentiation as indices of nerve-muscle block in man, **30**: 481
——, KATZ, R. L., KARIS, J. H., and PAPPER, E. M., Neuromuscular block in man during prolonged arterial infusion with succinylcholine, **27**: 242
——, see KARIS, J. H., jt. auth.
——, see KATZ, R. L., jt. auth.
——, see MATTEO, R. S., jt. auth.
GLASER, B., see PECHET, L., jt. auth.
GLASS, A. G., see NIGHTINGALE, D. A., jt. auth.
GLASSMAN, L., Modified endotracheal tubes for bronchography in children (current comment), **26**: 831
GLAUSER, E. M., COOK, C. D., and BOUGAS, T. P., Pressure flow characteristics and dead spaces of endotracheal tubes used in infants, **22**: 339
GLAZIER, F. W., Contamination of soda lime with methoxyflurane (current comment), **24**: 741
GLIEDMAN, M. L., SELLERS, R. D., TIMMES, J. J., VESTAL, B. L., and KARLSON, K. E., Pressure-volume relationships of the single lung, **23**: 41
Glomerular filtration rate during peridural anesthesia (Kennedy & others), **31**: 414
Glottis
post intubation subglottic edema in infants and children, steroid and antihistaminic therapy for (Deming & Oech), **22**: 933
GLUCK, L., see MOTOYAMA, E. K., jt. auth.
Glucose, blood: see Blood glucose
effect on contractility of halothane-depressed atria (Ko & Paradise), **31**: 532
GLUSHIEN, T. M., and HARRIS, L. C., JR., The effect of vasodilatation on metabolic and hemodynamic parameters during and after cardiopulmonary bypass. **28**: 985
Glutethimide (Doriden)
laboratory and clinical experiences (Stephen & Duvoisin), **21**: 482
Glycogen-storage disease, anesthesia in (clinical workshop). **29**: 1221
Glycolysis
anaerobic, of brain, effects of cyclopropane and diethyl ether on (Matteo & others), **30**: 156
anaerobic, of rat brain, effect of halothane on (Hoech & others), **27**: 770
GODDARD, DAVID R., The biological role of carbon dioxide (Review), **21**: 587
GOFF, W. R., see ABRAHAMIAN, H. A., jt. auth.

XUM

GOLD, M. I., A convenient and accurate nebulizer (clinical workshop), **28**: 1102
——, (current comment), **22**: 491
——, Impedance in anesthesiology (clinical workshop), **30**: 663
——, and ATWOOD, J. M., Respiratory obstruction (current comment), **26**: 577
——, and HELRICH, M., Mechanics of breathing during anesthesia. 2. The influence of airway adequacy, **26**: 751
——, and HELRICH, M., Pulmonary compliance during anesthesia, **26**: 281
——, REICHENBERG, S., and FREEMAN, E., Respiratory depression in the sedated bronchitic patient: rapid version of the CO_2 response curve, **30**: 492
——, see HELRICH, M., jt. auth.
GOLDBAUM, L. R., see PERRY, L. B, jt. auth.
GOLDBERG, A. A. J., see BOWMAN, W. C., jt. auth.
GOLDBERG, A. F., see GOLDBERG, N. B., jt. auth.
——, see SAWINSKI, V. J., jt. auth.
GOLDBERG, A. H., MALING, H. H., and GAFFNEY, T. E., The effect of digoxin pretreatment on heart contractile force during thiopental infusion in dogs, **22**: 974
——, MALING, H. M., and GAFFNEY, T. E., The value of prophylactic digitalization in halothane anesthesia, **23**: 207
——, and PHEAR, W. P. C., The effects of halothane and paired electrical stimulation on isotonic contractions of isolated heart muscle (abstract), **30**: 341
——, and ULLRICK, W. C., Effects of halothane on isometric contractions of isolated heart muscle, **28**: 838
GOLDBERG, M., see DEUTSCH, S., jt. auth.
GOLDBERG, N. B., GOLDBERG, A. F., SHARP, J. T., and ZBICK, R., Pulmonary compliance at increased ambient pressure (current comment), **27**: 196
——, SAWINSKI, V. J., and GOLDBERG, A. F., Human cerebrospinal fluid osmolality at 37°C. (current comment), **26**: 829
——, see SAWINSKI, V. J., jt. auth.
GOLDENBERG, I. S., see HAYES, M. A., jt. auth.
GOLDFIEN, A., Pheochromocytoma: diagnosis and anesthetic and surgical management (review), **24**: 462
GOLDSMITH, H. S., see MARCUS, P. S., jt. auth.
GOLDSTEIN, A., see KEATS, A. S., jt. auth.
GOLDSTEIN, R., see VANDERVEEN, J. L., jt. auth.
GOLHKE, R., see CHENOWETH, M. B., jt. auth.
GOLIA, U. V., see PIERCE, J. A., jt. auth.
GOLLING, R., see COHEN, E. N., jt. auth.
——, see FELDMAN, S. A., jt. auth.
GOODSON, D. N., see BONICA, J. J., jt. auth.
——, see DOWNES, J. J., jt. auth.
GOODSON, J. M., see BORGSTEDT, H. H., jt. auth.
GOODWIN, C., see SMITH, R. H., jt. auth.
GORDH, T., The influence of sex on anesthetic morbidity and mortality, **25**: 466
GORDON, G. F., CRAIG, R. G., and SEARCY, R. L., Effects of apnea on blood acid-base parameters (current comment), **24**: 118
GORDON, J. R., see WESTGATE, H. D., jt. auth.
GOSSETT, J. A., see STEVENS, W. C., jt. auth.
GOTTLIEB, S. F., FEGAN, F. J., and TIESLINK, J., Flammability of halothane, methoxyflurane and fluroxene under hyperbaric oxgyen conditions (current comment), **27**: 195
——, and SAVRAN, S. V., Nitrous oxide inhibition of sodium transport, **28**: 324
——, see DOMINO, E. F., jt. auth.
GOULET, A. H., see JACBOS, R. G., jt. auth.
GOWIN, J., The nurse's view of operating room design and function (symposium article), **31**: 181
GOWING, D., and HAUGEN, F. P., The use of data tape recording as a teaching aid (current comment), **26**: 679
——, UNDERWOOD, R. J., and HAUGEN, F. P., Electrocardiographic studies during electronarcosis, **25**: 668
——, see UNDERWOOD, R. J., jt. auth.
GRABLE, E., Effect of cyclopropane and halothane on the blood volume (current comment), **24**: 402
——, FINCK, A. J., ABRAMS, A. L., and WILLIAMS, J. A., The effect of cyclopropane and halothane on the blood volume in man, **23**: 828
GRAF, P. D., see HICKEY, R. F., jt. auth.
GRAFF, T. D., Water content of inhaled mists (correspondence), **31**: 193
——, and BENSON, D. W., Systemic and pulmonary changes with inhaled humid atmospheres: clinical application (medical intelligence), **30**: 199
——, SEWALL, K., LIM, H. S., KANTT, O., MORRIS, R. E., JR., and BENSON, D. W., The ventilatory response of infants to airway resistance, **27**: 168
GRAMLING, Z. W., and VOLPITTO, P. P., Flammability of Fluoromar in the circle absorption system, **24**: 194
——, see SMITH, R. H., jt. auth.
GRANATELLI, A. F., (with MUNCHOW, P. B.; COLLINS, V. J., and ROVENSTINE, E. A.), Clinical experiences with metaraminol as a vasopressor agent in spinal anesthesia, **21**: 471
GRANKE, R. C., see LASSER, E. C., jt. auth.
GRANT, G. B., (current comment), **22**: 494
Granulopoiesis
  changes in rat associated with prolonged halothane anesthesia (Bruce & Koepke), **27**: 811
GRAVENSTEIN, J. S., Paracelsus and his contribution to anesthesia (annals of history), **26**: 805
——, ANDERSON, T. W., and DE PADUA, C. B., Effects of atropine and scopolamine on the cardiovascular system, **25**: 123
——, and PERKINS, H. M., The effect of neostigmine, atropine and ephedrine on heart rate in man, **27**: 298
——, see ANDERSEN, T., jt. auth.
——, see ANTON, A. H., jt. auth.

——, see Fielder, D. L., jt. auth.
——, see Kottmeier, C. A., jt. auth.
——, see List, W. F., jt. auth.
Graves, C. L., Stauffer, W. M., Klein, R. L., and Underwood, P. S., Aortic pulse contour calculation of cardiac output (laboratory methods), **29**: 580
Gray, G. H., Jr., see Wolfson, B., jt. auth.
Green, C. D., and Eastwood, D. W., Effect of nitrous oxide inhalation in hemopoiesis in rats, **24**: 341
Green, K. G., Halothane and hepatic necrosis (current comment), **24**: 594
Greenbaum, R., Kelman, G. R., Nunn, J. F., and Prys-Roberts, C., Arterial oxygen tensions (correspondence), **27**: 869
Greenberg, C., and Papper, E. M., The indications for Gasserian ganglion block for trigeminal neuralgia (review article), **31**: 566
Greenblatt, G. M., A disposable ureteral catheter for epidural anesthesia (current comment), **26**: 116
——, A new endotracheal-cuff air valve (current comment), **26**: 112
——, (current comment), **22**: 1018
Greene, D. G., see Ruben, H. M., jt. auth.
Greene, L. T., see Salanitre, E., jt. auth.
Greene, N. M., Anesthetics and metabolism (editorial), **29**: 407
——, Council of Academic Societies (report of meeting), **30**: 248
——, Inhalation anesthetics and permeability of human erythrocytes to monosaccharides, **26**: 731
——, Lactate, pyruvate, and excess lactate production in anesthetized man, **22**: 404
——, Neurological sequelae of spinal anesthesia (review), **22**: 682
——, On the metabolism of trichloroethylene (correspondence), **29**: 1067
——, The metabolism of drugs employed in anesthesia (review), Part I, 127; Part II, **29**: 327
——, Toxic effects of anesthetics, symposium on (report of meeting), **28**: 956
——, and Spencer, E. L., Jr., Diethyl ether and lactate dehydrogenase activity *in vitro*, **24**: 23
——, and Webb, S. R., Facilitated transfer of halothane in human erythrocytes, **31**: 548
——, see Cervenko, F. W., jt. auth.
——, see Christian, G., jt. auth.
——, see Furano, E. S., jt. auth.
——, see Willenkin, R. L., jt. auth.
Greenfield, L. J., Ebert, P. A., and Benson, D. W., Effect of positive pressure ventilation on surface tension properties of lung extracts, **25**: 312
Greer, A. (with Zuhdi, N.; McCollough, B., and Carey, J.), The use of citrated banked blood for open-heart surgery, **21**: 496
Grego, J., see Pratt, E L., jt. auth.
Gregory, G. A., Eger, E. I., II, and Munson, E. S., The relationship between age and halothane requirement in man, **30**: 488
——, and Way, W. L., Methylphenidate for the treatment of hiccups during anesthesia (clinical workshop), **31**: 89
——, see Cullen, D. J., jt. auth.
Gregory, P., see Cullen, S. C., jt. auth.
Greifenstein, F. E. (with DeVault, M., and Harris, L. C., Jr), Circulatory responses to endotracheal intubation in light general anesthesia—the effect of atropine and phentolamine, **21**: 360
——, (with Sheffer, M. B.), The emotional responses of patients to surgery and anesthesia, **21**: 502
——, see Noe, F. E., jt. auth.
Greisheimer, E. M.; Krumperman, L. W.; Rusy, B. F., and Ellis. D. W., Comparison of effects of phenazocine and meperidine on respiration, **21**: 370
Griffith, L. K., see Paradise, R. R., jt. auth.
Grinstein, A., see Kennedy, W. F., Jr., jt. auth.
Gronert, G. A., Adrenal venous catecholamines during methoxyflurane anesthesia (correspondence), **30**: 475
——, see Michenfelder, J. D., jt. auth.
Grosshandler, S., and Vlazny, F., Universal adapter for endotracheal tubes (current comment), **25**: 727
Grosskreutz, D. C., see Davis, D. A., jt. auth.
——, see Sugioka, K., jt. auth.
Groveman, J. E., see Cohen, D. D., jt. auth.
Grover, R. F., see Lund, L. O., jt. auth.
——, see Virtue, R. W., jt. auth.
——, see Young, R. V., jt. auth.
Gruber, C. M., The design of experiments evaluating analgesics (editorial), **23**: 711
——, see Stoelting, V. K., jt. auth.
Guadagni, N. P., see Eger, E. I., II, jt. auth.
——, see McAleavy, J. C., jt. auth.
——, see Paddock, R. B., jt. auth.
Gualtiere, W. S., see Cook, D. R., jt. auth.
Guanase: see Liver, enzymes
Guanethidine
effects on cardiac responses to halothane (Rein & others), **24**: 672
Gulati, R., see Saklad, M., jt. auth.
Guldmann, N. (with Jones, R. E., and others), Cyclopropane anesthesia. III. Effects of cyclopropane on respiration and circulation in normal man, **21**: 380
——, see Dam, W. H., jt. auth.
Gunther, R. E., and Bauman, J., Obstetrical caudal anesthesia: I. A randomized study comparing 1% mepivacaine with 1% lidocaine plus epinephrine, **31**: 5
——, see Cohen, E. N., jt. auth.
Guntheroth, W. G., see Morgan, B. C., jt. auth.
Gupta, S. K., An exercise helmet for physiologic studies (clinical workshop), **31**: 375
——, see Llamas, R., jt. auth.
Guri, C. D., see Bernstein, D. S., jt. auth.

GUTGESELL, H. P., HELMER, P. R., and MURPHY, Q. R., Cyclopropane-epinephrine effects on cardiac rhythm and potassium balance, **29**: 892
GUTSCHE, B. B., HARP, J. R., and STEPHEN, C. R., Physiologic responses of the anesthetized dog to oxygen at five atmospheres absolute, **27**: 615
——, see HARP, J. R., jt. auth.
GUYTON, A. C., Regulation of cardiac output (E. A. Rovenstine Memorial Lecture), **29**: 314
GUZ, A., see EISELE, J. H., jt. auth.
GYURE, L., see HERSHEY, S. G., jt. auth.

H

H-reflex
as measure of anesthetic potency (Freund & others), **39**: 642
HACKETT, P. R., and CROSBY, R. M. N., Some effects of inadvertent hypothermia in infant neurosurgery, **21**: 356
HADDAD, C., and RICHARDS, C. C., Mechanical ventilation of infants: significance and elimination of ventilator compression volume (technical note), **29**: 365
——, see DOWNES, J. J., jt. auth.
HAGAMAN, V. D., see SMITH, S. L., jt. auth.
HAGFORS, N. R., see KNUTSON, R. C., jt. auth.
HAGIWARA, R., see FOLKMAN, J., jt. auth.
HAGLER, K. J., see LOWE, H. J., jt. auth.
HALE, D. E., see MORACA, P. P., jt. auth.
HALL, F. G., and SALZANO, J., Effects of vagal blockade on respiratory work in the hypothermic animal, **21**: 281
HALL, K. D., and LOZANO, E., (current comment), **23**: 579
——, NORRIS, FORBES, and DOWNS, S., Physical chemistry of halothane-ether mixtures, **21**: 522
——, and REESER, F. J., JR., (current comment), **23**: 126
HALLER, J. A., see DELEMOS, R., jt. auth.
HALLOWELL, P., see HEDLEY-WHYTE, J., jt. auth.
Halogenated Anesthetics: see under Anesthetics
Halogenated Hydrocarbons: see also under specific compounds
general anesthesia with, infiltration of epinephrine during (abstract), **23**: 156
Halopropane
anesthesia (Virtue & others), **24**: 217
clinical evaluation (Stephen & North), **25**: 600
Halothane (Fluothane): see also under Anesthesia
adrenal medullary discharge under (abstract), **23**: 148
air and, effect on oxygen uptake and metabolic control in rat liver mitochondria (abstract), **29**: 181
alteration of effect of isoproterenol (abstract), **30**: 350
alveolar concentration required for anesthesia, effect of nitrous oxide and narcotic premedication (Saidman & Eger), **25**: 302
analysis in gas and blood by gas chromatography (Rutledge & others), **24**: 862
analyzer (current comment), **23**: 391
anesthesia (current comment), **21**: 571
anesthesia and catecholamine levels in patient with pheochromocytoma (current comment), **26**: 688
anesthesia and hypercapnia, splanchnic circulation during (Epstein & others), **27**: 654
anesthesia as possible cause of massive hepatic necrosis (Brody & Sweet), **24**: 29
anesthesia, atrial activity during (abstract), **24**: 133; (correction), **24**: 403
anesthesia, cardiac cycle during (abstract), **21**: 106
anesthesia, cardiac excitability in (Smith & others), **23**: 766
anesthesia, catecholamine-induced arrhythmias during (Andersen & Johansen), **24**: 51
anesthesia, central regulation of respiration during (Fink & others), **23**: 200
anesthesia, cerebral carbohydrate metabolism during, effects of $Paco_2$ on carbohydrate utilization (Cohen & others), **25**: 185
anesthesia, cerebral circulation during, effects of hypocarbia and *d*-tubocurarine (Wollman & others), **25**: 180; (current comment), **25**: 874; 875
anesthesia, changes in respiratory dead space during (Askrog & others), **25**: 342
anesthesia, comparison with halopropane (Merkel & Eger), **24**: 346
anesthesia (constant-depth), ventilatory response to hypercapnia and hypoxia at normothermia and moderate hypothermia during (Regan & Eger), **27**: 624
anesthesia, correlation of EEG patterns with arterial concentrations and clinical signs during (abstract), **23**: 147
anesthesia, cost in low flow system (current comment), **21**: 324
anesthesia, digitalized heart during (Shimosato & Etsten), **24**: 41
anesthesia during controlled bleeding in dogs (abstract), **27**: 207
anesthesia, EEG patterns during (current comment), **23**: 590
anesthesia, effect of epinephrine during (abstract), **23**: 152
anesthesia, effect of hypocapnia on level (Bridges & Eger), **27**: 634
anesthesia, effect on regional acetylcholine levels in rat brain (Schmidt), **27**: 788
anesthesia, effects on renal function (Deutsch & others), **27**: 793 (Mazze & others), **24**: 279
anesthesia, fetal ECG and obstetrical blood loss with (abstract), **23**: 140
anesthesia, glucose pool size, turnover rate, and $C^{14}O_2$ production during (abstract), **28**: 251
anesthesia in dog, cardiovascular effects of nitrous oxide during (Smith & Corbascio), **27**: 560

anesthesia in dog, intracranial pressure and internal carotid blood flow during (Galindo & Baldwin), **24**: 318
anesthesia in dogs, hexose metabolism during (abstract), **25**: 96
anesthesia in dogs, temperature dependence correlation with theories of anesthetic action (Eger & others), **26**: 764
anesthesia in infants, inspiratory and expiratory carbon dioxide concentrations during (Podlesch & others), **27**: 823
anesthesia in paraplegic patient (current comment), **24**: 399
anesthesia, increased incidence of paradoxical hypertension following resection of aortic coarction under (abstract), **22**: 132
anesthesia (light) oxygen uptake during (Theye & Tuohy), **25**: 627
anesthesia (light) with neuromuscular block, hypercarbia during (Davenport & others), **25**: 307; (current comment), **25**: 876
anesthesia, measurement of oxygen consumption by spirometry during (laboratory methods) (Theye & Messick), **29**: 361
anesthesia, metabolic and circulatory aspects (abstract), **27**: 226
anesthesia, morphologic changes in hepatic necrosis following (Blackburn & others), **25**: 270
anesthesia, relation of blood volume and hemodynamic changes during (Mores & others), **24**: 790
anesthesia, splanchnic circulation during (abstract), **26**: 246
anesthesia, stellate ganglionic transmission and myocardial contractile force during (Li & others), **29**: 444
anesthesia, value of prophylactic digitalization in (Goldberg & others), **23**: 207
anesthesia with adult circle absorption system, acid-base balance in infants during (abstract), **25**: 99
anesthetic blood levels, effect of body temperature (abstract), **27**: 217
announcement of Cooperative Study, **24**: 270
beta-adrenergic blockade and, in management of pheochromocytoma (Cooperman & others), **28**: 575
biotransformation (correspondence), **29**: 388
biotransformation in man (Rehder & others), **28**: 711
block of pain transmission (abstract), **30**: 339
blood and tissue levels in dogs (Chenoweth & others), **23**: 101
and cardiac work (abstract), **24**: 121
cardiovascular and respiratory effect of, and halothane-diethyl ether azeotrope in dogs (Dobkin & others), **21**: 13
cardiovascular effects in man (abstract), **29**: 185
cardiovascular effects of (Mahaffey & others), **22**: 982
cardiovascular, respiratory and metabolic effects in dogs (Dobkin & Fedoruk), **22**: 355
central nervous actions affecting the circulation (abstract), **24**: 139
central nervous actions affecting the systemic circulation (Price & others), **24**: 770
chronotropic and inotropic effects of, in normal and chronically cardiac denervated dogs (Morrow & others), **22**: 915
circulatory and respiratory actions (Deutsch & others), **23**: 631
clinical comparison with chloroform by blind study technique (Bamforth & others), **21**: 273
combined with neuromuscular blocking agents (abstract), **22**: 149
compared with Ethrane (clinical workshop), **31**: 370
-compressed-air anesthesia, cardiac catheterization using (Norton & Kubota), **21**: 374
concentration in clinical anesthesia (Smith & Volpitto), **21**: 1; (current comment), **21**: 438
concentration in closed and semiclosed circuits during controlled ventilation (Hill & Lowe), **23**: 291
concentrations in inspired atmospheres during closed circuit anesthesia (Fabian & others), **22**: 459; (correction), **22**: 1021
contractile and cell membrane effects of (abstract), **25**: 90
control of abnormal hypertensive responses by (current comment), **24**: 885
depression of antibody production (abstract), **30**: 353
depression of atrial contractility, effects of substrates on (Ko & Paradise), **31**: 532
determination of O_2 and CO_2 content in blood containing (laboratory methods) (Theye, **30**: 325
differences in effects of cyclopropane, ether and, on components of anesthesia (abstract), **21**: 95
digitalization against the negative inotropic effect in dogs (abstract), **23**: 150
effect of alpha-methyldopa on MAC (abstract), **29**: 204
effect of carbon dioxide on in the dog (Eisele & others), **28**: 856
effect of propranolol on cardiovascular response to (Craythorne & Huffington), **27**: 580
effect of subanesthetic concentration on pain threshold (Siker & others), **28**: 337
effect on bleeding volume variations in dogs (Marcus & others), **23**: 671
effect on blood volume (current comment), **24**: 402; (Grable & others), **23**: 828
effect on canine cerebral metabolism (Theye & Michenfelder), **29**: 1113
effect on canine oxygen consumption (Theye & Sessler), **28**: 661
effect on cell cycle in rat small intestine (Bruce & Traurig), **30**: 401
effect on cerebral ischemia in rabbits (abstract), **26**: 242

XUM

effect on force-velocity relations and dynamic stiffness of isolated heart muscle (Sugai & others), **29**: 267
effect on H-reflex in man (abstract), **29**: 191
effect on heart (abstract), **23**: 156
effect on human airway mechanics (Patterson & others), **29**: 900
effect on mitochondrial oxygen uptake (abstract), **30**: 337
effect on mitosis (abstract), **30**: 348
effect on myocardial mechanics (Shimosato & others), **30**: 506
effect on oxygen consumption of rat brain, liver and heart and anaerobic glycolysis of rat brain (Hoech & others), **27**: 770
effect on respiration during controlled bleeding (abstract), **29**: 171
effect on tracheal smooth muscle (Fletcher & others), **29**: 517
effect on ventricular contractile force (abstract), **22**: 145
effects of gamma radiation on (clinical workshop), **29**: 153
effects of Guanethidine and reserpine on cardiac responses to (Rein & others), **24**: 672
effects of hyperthyroidism and hypothyroidism on (abstract), **29**: 172
effects of ventilation and solubility on recovery from (Stoelting & Eger). **30**: 290
effects on arterial pressure, preganglionic sympathetic activity and barostatic reflexes (Skovsted & others), **31**: 507
effects on baroreflex control of heart rate (Bristow & others), **31**: 422
effects on blood during operation (Schweizer & others), **28**: 814
effects on circulatory reflexes of the dog (Epstein & others), **29**: 867
effects on dorsal horn neurons (de Jong & others), **31**: 205
effects on firefly luciferin bioluminescence (Ueda), **26**: 603
effects on force of contraction of rat heart (Paradise & Bibbins), **31**: 349
effects on gastrointestinal motility (Marshall & others), **22**: 363
effects on human liver cells *in vitro* (Corssen & others), **27**: 155
effects on isolated heart muscle (abstract), **29**: 192
effects on isometric contractions of isolated heart muscle (Goldberg & Ullrick), **28**: 838
effects of liver in protein-deficient mice (abstract), **22**: 131
effects on mechanical properties of heart muscle (abstract), **28**: 255
effects on myocardial contractile force and vascular resistance (Morrow & Morrow), **22**: 537
effects on neuromuscular transmission (abstract), **28**: 252
effects on oxygen consumption and glucose metabolism in rats (abstract), **28**: 262
effects on recovery cycles of click-evoked potentials from cat auditory cortex (Kitahata), **29**: 523
effects on responses of cardiac sympathetic ganglia (Alper & others), **31**: 429
effects on skeletal muscle and baroreceptor reflexes (Cristoforo & Brody), **29**: 36
effects on total pulmonary resistance (Hickey & others), **31**: 334
effects on uterine muscle (abstract), **29**: 206
effects on vasomotor "center" of dog (Price & others), **26**: 55
effects on vasomotor control mechanisms of the dog (Wang & others), **29**: 877
effects on ventilation (Munson & others), **27**: 716; (abstract), **27**: 222
enhancement of heart rate responses to sympathetic stimulation (Price & others), **29**: 478
-epinephrine arrhythmias, prevention by adrenergic β-receptor blockade (abstract), **25**: 101
and ether anesthesia, comparison of, extracorporeal circulation and endogenous epinephrine and norepinephrine in plasma, atrium and urine (Anton & others), **25**: 262
-ether mixtures, physical chemistry of (Hall & others), **21**: 522
-ether ratios, determination by infrared spectrometry (abstract), **23**: 143
ethylene and, additive effect (Miller & others), **31**: 301
evaluation of toxicity by tissue-culture methods (abstract), **25**: 92
expired air containing, chromatographic analysis of (Theye), **25**: 75
facilitated transfer in human erythrocytes (Greene & Webb), **31**: 548
failure as immunosuppressant in transplant therapy (clinical workshop), **30**: 235
first five years (review) (Johnstone), **22**: 591
flammability under hyperbaric oxygen conditions (current comment), **27**: 195
forearm venous and arterial responses to (Caffrey & others), **26**: 786
ganglionic blocking potency and interaction with nitrous oxide (Price & Price). **28**: 349
has predominant circulatory action? (Price & Price), **27**: 764
and hepatic function (abstract), **25**: 103
and hepatic necrosis (editorial), **24**: 109; (current comment), **24**: 593; 743
hepatic toxicity in mice, effect of adrenergic blocking agents on (abstract), **25**: 111
and hepatic venous oxygen saturation (abstract), **26**: 246
impurities (correspondence), **26**: 236
impurities and Copper Kettle (Albin & others), **25**: 672
impurity in stored (current comment), **26**: 104
in low flow systems (current comment), **22**: 324
in obstetric anesthesia (abstract), **26**: 256
influence on potassium content of rat atria (Paradise & Griffith), **26**: 195

inhalation causing vasoconstriction (Cristoforo & Brody), **29**: 44
injection of epinephrine during general anesthesia with (Katz & others), **23**: 597
intravenous, in dogs (current comment), **22**: 638
lack of hydrate formation (Eger & Shargel), **30**: 136
liquid, cardiovascular collapse from delivery (clinical workshop), **30**: 246
median effective doses in adults and children (Nicodemus & others), **31**: 344
metabolic effects in cell culture (Fink & Kenny), **29**: 505
metabolism of (editorial) (Cohen), **28**: 651
minimum alveolar concentration (abstract), **27**: 225; (Saidman & others), **28**: 994
minimum alveolar concentration affected by central catecholamine levels (Miller & others), **29**: 1153
minimum alveolar concentration, effects of hyperthyroidism and hypothyroidism on (Babad & Eger), **29**: 1087
myocardial and total oxygen consumption with (Theye), **28**: 1042
myocardial metabolism in canine heart following (Merin), **31**: 20
National Halothane Study, Final Report of (editorial) (Bunker), **29**: 231
National Halothane Study, Report of the Pathology Panel (special communication) (Gall), **29**: 233
neuromuscular effects and interaction with *d*-tubocurarine in man (Katz & Gissen), **28**: 564
nitrous oxide and oxygen anesthesia, blood gas studies with, during spontaneous respiration (abstract), **26**: 247
nitrous oxide and, second gas effect (Stoelting & Eger), **30**: 273
and nitrous oxide anesthesia, oxygenation during closed mitral valvulotomy with (abstract), **26**: 248
nitrous oxide effects on responses to (Hornbein & others), **31**: 250
non-adrenergic vasoconstriction produced by (abstract), **28**: 242
and norepinephrine actions in isolated mammalian heart (Flacke & Alper), **23**: 793
norepinephrine biosynthesis following (Ngai & others), **31**: 53
norepinephrine uptake and release following (Ngai & others), **31**: 45
overdose, unusual cardiovascular stability following (clinical workshop), **30**: 471
oxygen and, method for measuring functional residual capacity and dynamic lung compliance during inhalation (Colgan & Whang), **28**: 559
paired electrical stimulation and, effects on isolated heart muscle (abstract), **30**: 341
partial pressure in blood, estimation of (Theye), **29**: 101
percutaneous loss (Stoelting & Eger), **30**: 278
peripheral vascular resistance and respiratory acidosis (abstract), **27**: 225
portable unit for Fluothane-air anesthesia ("PUFFA") (current comment), **21**: 768
preparation of solid hydrate of (van der Heem), **27**: 84
prolonged anesthesia, changes in granulopoiesis in rat associated with (Bruce & Koepke), **27**: 811
pulmonary hemodynamic effects (Price & others), **30**: 629
pulmonary surfactant in lung extracts of patients receiving (clinical workshop), **28**: 1089
renal and cardiovascular effects (Blackmore & others), **21**: 489
requirement and age (Gregory & others), **30**: 488
simple apparatus for administration (current comment), **22**: 1017
solubility in blood and tissue homogenates (abstract), **23**: 153; (Larson & others), **23**: 349
solubility in rubber, soda lime and various plastics (Eger & others), **23**: 356
teratogenicity in the rat (Basford & Fink), **29**: 1167
teratogenicity in rats (abstract), **29**: 173
toxicity, exposure of anesthetists to (Linde & Bruce), **30**: 363
trace compounds in (current comments), **25**: 397
and trichlorethylene in a precision system (Dobkin & others), **23**: 58
uptake and metabolism in the mouse (Cohen & Hood), **31**: 553
uptake at constant alveolar concentration (abstract), **24**: 130; (Eger & Guadagni), **24**: 299
uptake by human body (abstract), **23**: 161; (Sechzer & others), **24**: 779
uptake in infants and children (Salanitre & Rackow), **30**: 388
utilizing known increments, in closed circuit anesthesia (Hampton & Flickinger), **22**: 413
vaporizer (Ohio), overdose with (current comment), **23**: 715
vaporizer, residue in (current comment), **24**: 887
vaporizer, valve and bag assembly for (current comment), **23**: 584
versus cyclopropane in shock (abstract), **24**: 125
xenon and, additive effect (Cullen & others), **31**: 305
Halothane-2 ^{14}C
metabolism in the mouse (Cohen), **31**: 560
HAMELBERG, W., (current comment), **22**: 493
——, SPROUSE, J. H.; MAHAFFEY, J. E., and RICHARDSON, J. A., Catechol amine levels during light and deep anesthesia, **21**: 297
——, see GARDIER, R. W., jt. auth.
——, see MOSTER, W. G., jt. auth.
HAMILTON, W. K., Atelectasis, pneumothorax, and aspiration as postoperative complications (review), **22**: 708
——, Nomenclature of inhalation anesthetic systems (editorial), **25**: 3

XUM

——, McDonald, J. S., Fischer, H. E., and Bethards, R., Postoperative respiratory complications. A comparison of arterial gas tensions, radiographs and physical examination, **25**: 607
——, see Caffrey, J. A., jt. auth.
——, see Eckstein, J. W., jt. auth.
——, see Munson, E. S., jt. auth.
——, see Stevens, W. C., jt. auth.
——, see Waun, J. E., jt. auth.
Hamlow, E. E., and Peck, G. E., The stability of solutions of acetylcysteine to oxidation during nebulization (tech. note), **28**: 934
Hampton, L. J., and Flickinger, H., Closed circuit anesthesia utilizing known increments of halothane, **22**: 413
Han, Y. H., Why do chronic alcoholics require more anesthesia? (abstract), **30**: 341
——, and Brown, E. S., Pituitary blockade by meperidine in man, **22**: 909
Hanks, E. C., (current comment), **22**: 644
——, Ngai, S. H., and Fink, B. R., The respiratory threshold for carbon dioxide in anesthetized man, **22**: 393
——, see Fink, B. R., jt. auth.
——, see Ngai, S. H., jt. auth.
Harland, J. H. (with Dobkin, A. B., and Fedoruk, S.), Comparison of the cardiovascular and respiratory effects of halothane and the halothane-diethyl ether azeotrope in dogs, **21**: 13
——, see Dobkin, A. B., jt. auth.
Harmel, H. M., see Amaha, K., jt. auth.
Harp, J. R., Gutsche, B. B., and Stephen, C. R., Effect of anesthetics on central nervous system toxicity of hyperbaric oxygen, **27**: 608
——, see Gutsche, B. B., jt. auth.
Harris, L. C., Jr. (with DeVault, Marion, and Griefenstein, F. E.), Circulatory responses to endotracheal intubation in light general anesthesia—the effect of atropine and pentolamine, **21**: 360
——, Kirimli, B., and Safar, P., Augmentation of artificial circulation during cardiopulmonary resuscitation, **28**: 730
——, Kirimli, B., and Safar, P., Ventilation—cardiac compression rates and ratios in cardiopulmonary resuscitation, **28**: 806
——, see Capizzi, L., S., jt. auth.
——, see Glushien, T. M., jt. auth.
——, see Safar, P., jt. auth.
Harris, W. H., Cole, D. W., Mital, M., and Laver, M. B., Methemoglobin formation and oxygen transport following intravenous regional anesthesia using prilocaine, **29**: 65
Harrison, G., see Geddes, L. A., jt. auth.
Harrison, G. A., see Wilson, L. A., jt. auth.
Harrison, J. H., see Vandam, L. D., jt. auth.
Hart, D. D., Halothane and hepatic necrosis (current comment), **24**: 593
Hasbrouck, J. D., see Sy, W. P., jt. auth.
Haselhuhn, D. H., (current comment), **23**: 589
——, New three-way connector with unidirectional valve (current comment), **25**: 717
Haugen, F. P., The autonomic nervous system and pain, **29**: 785
——, The failure to regain consciousness after general anesthesia (review), **22**: 657
——, see Gowing, D., jt. auth.
Havel, R. J., The autonomic nervous system and intermediary carbohydrate and fat metabolism, **29**: 702
Hawks, B. L., see Clark, R. B., jt. auth.
Hayes, M. A., and Goldenberg, I. S., Renal effects of anesthesia and operation mediated by endocrines (review), **24**: 487
Headache
  post-lumbar puncture, and flexed back (current comment), **25**: 80
  postspinal, treatment (current comment), **21**: 565
Hearing acuity
  effect of nitirous oxide on (Waun & others), **28**: 846
Heart: see also Arrhythmias; Cardiovascular
  aortic pulse contour calculation of cardiac output (laboratory methods) (Graves & others), **29**: 580
  arrest, effects of intrathecal oxygen on cortical survival during (abstract), **23**: 155
  arrest: hazard of tipping vaporizer (current comment), **26**: 235
  arrest in burned patient following succinyldicholine administration (current comment), **27**: 516
  arrhythmia, potency of anti-arrhythmic drugs (Long & others), **28**: 318
  arrhythmia reversed by alprenolol (clinical workshop), **31**: 93
  arrhythmias and polypeptides (abstract), **25**: 104
  arrhythmias (cyclopropane) in cat, cause, prevention and correction (Robbins & Thomas), **21**: 163
  arrhythmias during anesthesia (abstract), **21**: 116
  arrhythmias, effects of propranolol on epinephrine-induced arrhythmias during halothane anesthesia (abstract), **29**: 199
  arrhythmias produced by interaction of anesthetic agents and adrenergic drugs (Katz & Epstein), **29**: 763
  arrhythmias, role of H^+ in initiation of epinephrine-induced arrhythmias during cyclopropane anesthesia (abstract), **29**: 194
  artificial: see Oxygenator
  atria, effect of anesthetics on response to sympathetic nerve stimulation (Naito & Gillis), **29**: 259
  atria, extracorporeal circulation and endogenous epinephrine and norepinephrine in, comparison of ether and halothane anesthesia (Anton & others), **25**: 262
  atria (rat), influence of halothane, chloroform and methoxyflurane on potassium content of (Paradise & Griffith), **26**: 195
  atrial activity during halothane anesthesia (abstract), **24**: 133; (correction), **24**: 403

beat (fetal), audiovisual demonstration (abstract), **21**: 106
cardiac arrest board (current comment), **22**: 1018
cardiac catheterization, axillary bloc, and sedation for (clinical workshop), **28**: 936
cardiac catheterization using halothane-compressed-air anesthesia (Norton & Kubota), **21**: 374
cardiac excitability in ether, cyclopropane and halothane anesthesia (Smith & others), **23**: 766
cardiac monitors (current comment), **21**: 326
cardiac output and distribution, effects on rate of cerebral anesthetic equilibration (Munson & others), **29**: 533
cardiac output tnd methoxamine in nonanesthetized man and during anesthesia (Li & others), **26**: 21
cardiac output and physiologic shunt during anesthesia (Yamamura & others), **30**: 406
cardiac output, regulation of (Guyton), **29**: 314
cardiac pacemakers (correspondence), **28**: 790
cardiopulmonary resuscitation, augmentation of artificial circulation during (Harris & others), **28**: 730
cardiopulmonary resuscitation laboratory evaluation (abstract), **24**: 132
cardiovascular effects of atropine and neostigmine (Fielder & others), **30**: 637
cardiovascular effects of halothane (Mahaffey & others), **22**: 982
cell membrane potentials, effect of inhalation anesthetics on (abstract), **21**: 100
chronotropic and inotropic effects of halothane in dogs (Morrow & others), **22**: 915
chronotropic response to sympathetic stimulation, effects of cyclopropane and halothane on (Price & others), **29**: 478
critated banked blood for open-heart surgery (Zuhdi & others), **21**: 496
closed chest cardiac massage, drug effects on carotid blood flow in (abstract), **27**: 212
closed chest cardiac massage in newborn (current comment), **22**: 644
contractile force during thiopental infusion in dogs, effect of digoxin pretreatment (Goldberg & others), **22**: 974
contractile state in anesthesia and surgery (review) (Siegel), **30**: 519
cyanotic congenital, effe t of standard lesion on induction dose of methohexital in dog (abstract), **26**: 254
cycle during halothane anesthesia (abstract), **21**: 106
differential effects of diethyl ether anesthesia on right and left myocardial function (Shimosato & others), **28**: 874
digitalization, indications for prophylactic (medical intelligence) (Deutsch & Dalen), **30**: 648
digitalized, during halothane anesthesia (Shimosato & Etsten), **24**: 41
disease, digitalis and (Stron & Keats; Deutsch & Dalen), **31**: 583; 584
dog, effect of epinephrine on, during methoxyflurane anesthesia (Bamforth & others), **22**: 169
effect of cyclopropane on myocardial contraction and membrane potentials (Levy & others), **24**: 185; (current comment), **24**: 256
effect of halothane on (abstract), **23**: 156
effect of reserpine on cardiac function during thiopental-cyclopropane anesthesia (abstract), **24**: 140
effect of reserpine on cardiac function during thiopental-cyclopropane anesthesia in dog (Rusy & others), **26**: 14
effect of vagolytic drugs on ventricular arrhythmias during cyclopropane anesthesia (abstract), **26**: 264
effects of anesthetics on myocardial catecholamines (Li & others), **25**: 641
effects of guanethidine and reserpine on cardiac responses to halothane (Rein & others), **24**: 672
effects of halothane, cyclopropane, and ether on ventricular contractile force (abstract), **22**: 145
effects of halothane on myocardial contractile force (Morrow & Morrow), **27**: 537
electrocardiogram during anesthesia and surgery (Cannard & others), **21**: 194
electrocardiogram, fetal, with halothane anesthesia (abstract), **23**: 140
electrocardiogram, improved Luer-Lok adaptor (current comment), **24**: 588
electrocardiogram, synoptic interpretation with EEG in anesthetic emergencies (Leonhardt), **22**: 918
electrocardiographic studies during electronarcosis (Gowing & others), **25**: 668
electrocardiography, fetal (review) (Hon), **26**: 477
Ethrane effect on myocardial mechanics (Shimosato & others), **30**: 513
fetal electrocardiographic responses to hemodynamic influences (abstract), **27**: 220
fibrillation resulting from pacemaker electrodes and electrocautery during surgery (clinical workshop), **29**: 845
force, effects of local anesthetic agents (abstract), **23**: 160
force of contraction, effects of equieffective concentrations of anesthetics on (Paradise & Bibbins), **31**: 349
halothane and cardiac work (abstract), **24**: 121
halothane-depressed, metabolism and hemodynamics in (abstract), **30**: 346
halothane effects on responses of sympathetic ganglia (Alper & others), **31**: 429
hemodynamic effects, acute, of methoxyamine in man (Smith & Whitcher), **28**: 735
hemodynamic effects of changes in arterial carbon dioxide tension during intermittent positive pressure ventilation (Morgan & others), **28**: 866

XUM

hemodynamic effects of oxygen inhalation (abstract), **23**: 144
homotransplantation, anesthesia for (Keats & others), **30**: 192
influence of various drugs and anesthetic agents on cardiac excitability (abstract), **24**: 141
intra-atrial placement under electrocardiographic guidance (current comment), **25**: 388
intracardiac surgery (editorial), **22**: 485
isolated mammalian, action of halothane and norepinephrine in (Flacke & Alper), **23**: 793
massage in dogs, comparison of open-chest and closed-chest (Redding & Cozine), **22**: 280
massage, two hours of, and 42 countershocks, cardiac resuscitation following (current comment), **27**: 97
mathematical model (Shimosato & others), **29**: 538
measurement of cardiac output by indicator-dilution method (Theye & others), **25**: 71
methoxyflurane effect on myocardial mechanics (Shimosato & others), **30**: 506
monitoring, indirect, during anesthesia (abstract), **30**: 343
muscle, effects of halothane on force-velocity, length-tension, and stress-strain curves (abstract), **29**: 192
muscle, isolated, effect of halothane on force-velocity relations and dynamic stiffness (Sugai & others), **29**: 267
muscle, isolated, effects of halothane on isometric contractions of (Goldberg & Ullrick), **28**: 838
myocardial and total oxygen consumption with halothane (Theye), **28**: 1042
myocardial contractile force during halothane anesthesia (Li & others), **29**: 444
myocardial contractility, isovolemic intraventricular pressure change as index (Shimosato), **31**: 327
myocardial contractility, on the measurement of (editorial) (Blinks), **28**: 800
myocardial mechanics, effects of methoxyflurane and sympathetic-nerve stimulation on (Shimosato & others), **29**: 538
myocardial metabolism following halothane (Merin), **31**: 20
myocardial metabolism in patients having aortic-valve replacement (Moffitt & others), **31**: 310
myocardium, effect of methoxyflurane on (abstract), **29**: 215
need for ventilation during closed chest cardiac massage (current comment), **22**: 636
oculo-cardiac reflex, prevention in children, comparison of retrobulbar block and intravenous atropine (Taylor & others), **24**: 646
open intracardiac surgery, anesthetic management (Theye & others), **23**: 823
output and postganglionic sympathetic activity during acute respiratory alkalosis (Moster & others), **31**: 28
output during anesthesia, effect of hypocapnia on (Theye & others), **27**: 778
output, effects of major surgical operation (Colgan & Mahoney), **31**: 213
pacemakers (review) (Lefemine), **27**: 848
physiologic reactions during profound hypothermia with cardioplegia (Stephen & others), **22**: 873
postoperative cardiac arrhythmias (review) (Buckley & Jackson), **22**: 723
precordial electrocardiograph stethoscope (current comment), **26**: 228
preoperative bradycardia (current comment), **26**: 686
Purkinje fibers, cyclopropane-epinephrine effects on (Davis & others), **30**: 369
Purkinje fibers, effects of calcium and cyclopropane on (Temte & others), **28**: 354
rat, effect of halothane on oxygen consumption of (Hoech & others), **27**: 770
rate and rhythm, effect of intravenously administered succinylcholine (Barreto), **21**: 401
rate and rhythm in anesthetized man, effects of intravenous succinylcholine (Williams & others), **22**: 947
rate, anesthesia effects on baroreflex control of (Bristow & others), **31**: 422
rate, effect of neostigmine, atropine and ephedrine on (Gravenstein & Perkins), **27**: 298
rate, effects of anesthetics on variability of myocardial contraction with (abstract), **29**: 182
rate, numerical indication of (current comment), **25**: 861
rate, responses to sympathetic stimulation, enhancement by cyclopropane and halothane (Price & others), **29**: 478
rhythm, cardiac and potassium balance, cyclopropane–epinephrine effects on (Gutgesell & others), **29**: 892
rhythm, effects of epinephrine and PLV-2 (Katz), **26**: 619
rhythm in conscious and anesthetized man, effects of atropine on (Jones & others), **22**: 67
stationary ECG hook-up (current comment), **26**: 696
studies of coronary arterial flow using square-wave electromagnetic flowmeter (abstract), **24**: 128
substrate effects on depression of atrial contractility with halothane (Ko & Paradise), **31**: 532
succinylcholine and cardiac excitability (Galindo & Davis), **23**: 32
sudden cardiac collapse (review) (Martin), **22**: 738
surgery: see also Mitral Valvulotomy
surgery, anesthesia for (review) (Moffitt & others), **29**: 1131
surgery, anesthetic management for cardiopulmonary bypass in community hospital (Pierce & others), **22**: 452
surgery, plasma volume changes in (abstract), **21**: 107

sympathomimetic amines and methylxanthines inducing cardiac arrhythmias (Udea & others), **22**: 926
transplant: see under Homotransplantation
venous system during spinal and epidural anesthesia (Shimosato & Etsten), **30**: 619
ventilation—cardiac compression rates and ratios in cardiopulmonary resuscitation (Harris & others), **28**: 806
work, nomogram for estimation (clinical workshop), **30**: 569
HERBERT, C. L., see MORROW, D. H., jt. auth.
HEDDEN, M., ERSOZ, C. J., and SAFAR, P., Tracheoesophageal fistulas following prolonged artificial ventilation via cuffed tracheostomy tubes (clinical workshop), **31**: 281
——, see CARROLL, R., jt. auth.
HEDLEY-WHYTE, J., Oxygen tension temperature factor (correspondence), **27**: 205
——, and LAASBERG, L. H., Ethchlorvynol poisoning: gas liquid chromatography in management (clinical workshop), **30**: 107
——, PONTOPPIDAN, H., LAVER, M. B., HALLOWELL, P., and BENDIXEN, H. H., Arterial oxygenation during hypothermia, **26**: 595
——, see BENDIXEN, H. H., jt. auth.
——, see SLATER, E. M., jt. auth.
——, see WOO, S. W., jt. auth.
HEGGERS, J. P., see PETTY, W. C., jt. auth.
HEHRE, F. W., Symposium on Maternal and Fetal Physiology (report of meeting), **29**: 1235
HEIFETZ, M. D., see BIRKHAN, H. J., jt. auth.
HEINITSH, H., see MODELL, J. H., jt. auth.
HEINRICH, R. G., see DOBKIN, A. B., jt. auth.
HEIRONIMUS, T. W., III, and EASTWOOD, D. W., Humidifying the Air-Shields respirator (current comment), **26**: 573
HEISTERKAMP, D. V., and COHEN, P. J., Technical note concerning the Block-Aid monitor (clinical workshop), **29**: 1210
——, SKOVSTED, P., and COHEN, P. J., The effects of small incremental doses of *d*-tubocurarine on neuromuscular transmission in anesthetized man, **30**: 500
HELLER, M. L., and WATSON, T. R., JR., Arterial oxygenation during transition from 100 per cent oxygen to air breathing: polarographic $P_{A_{CO_2}}$ study, **22**: 385
——, and WATSON, T. R., JR., The role of preliminary oxygenation prior to induction with high nitrous oxide mixtures; polarographic Pa_{O_2} study, **23**: 219
——, WATSON, T. R., JR., and IMREDY, D. S., Apneic oxygenation in man; polarographic arterial oxygen tension study, **25**: 25
——, WATSON, T. R., JR., and IMREDY, D. S., Effect of nitrous oxide uptake on arterial oxygenation, **28**: 904
HELMER, P. R., see DAVIS, L. D., jt. auth.
——, see GUTGESELL, H. P., jt. auth.
——, see TEMTE, J. V., jt. auth.
HELRICH, M., (current comment), **22**: 491
——, and CASCORBI, H. F., Crossover study of Ethrane and halothane in volunteers (clinical workshop), **31**: 370
——, and GOLD, M. I., Circulatory response to tilting following methotrimeprazine and morphine in man, **25**: 662
——, MCASLAN, T. C., SKOLNIK, S., and BESSMAN, S. P., Correlation of blood levels of 4-hydroxybutyrate with state of consciousness, **25**: 771; (correspondence), **26**: 695
——, see CHODOFF, P., jt. auth.
——, see DRINKER, A. S., jt. auth.
——, see GOLD, M. I., jt. auth.
HELWIG, J., JR. (with CANNARD, T. H.; DRIPPS, R. D., and ZINSSER, H. F.), The electrocardiogram during anesthesia and surgery, **21**: 194
Hematocrit: see also Microhematocrit
values at various sites in man (clinical workshop), **29**: 145
Hematoma
spinal epidural following continuous epidural anesthesia (clinical workshop), **29**: 162
HEMINGWAY, A., and PRICE, W. M., The autonomic nervous system and regulation of body temperature, **29**: 693
Hemodynamics: see also under Blood
blood volume during IPPV (Morgan & others), **30**: 297
effects of intermittent positive pressure respiration (Morgan & others), **27**: 584
effects of metabolic acidosis (abstract), **27**: 228
effects of potassium infusion in dogs (Smith & Corbascio), **26**: 633
influences, observations on fetal electrocardiographic responses to (abstract), **27**: 220
of mephentermine during spinal anesthesia (Li & others), **24**: 817
systemic and coronary, or tromethamine (THAM) in anesthetized dog (Rowe & others), **25**: 317
Hemolysis: see also under Blood
after fresh-water aspiration (Modell & others), **30**: 421
Hemophiliac
problems during surgical treatment (review) (Pechet & Glaser), **27**: 399
Hemopoiesis: see under Blood
Hemorrhage: see also under Bleeding
effect on plasma thiopental concentrations (abstract), **24**: 123; (Bergman), **24**: 813
following induced hypotension, management of (clinical workshop), **28**: 1104
threatening, deliberate hypotension for management of (clinical workshop), **29**: 155
succinylcholine in (abstract), **29**: 178
Hemorrhagic Shock: see Shock, hemorrhagic
HEMSWORTH, B. A., see FOLDES, F. F., jt. auth.
HENRIE, J. R., PARKHOUSE, J., and BICKFORD, R. G., Alteration of human consciousness of nitrous oxide as assessed by electroencephalography and psychological tests, **22**: 247

HENSCHEL, E. O., Effects of Diffuse Electrical Currents on Physiological Mechanisms, with Application to Electroanesthesia and Electrosleep (report of meeting), **29**: 606
Heparin
cryproteinemia and hyperheparin states, role in bleeding during and after hypothermic operations (abstract), **24**: 141
influence on thiopental action in rats (Winters & others), **12**: 27
therapy, pharmacologic and clinical aspects (review) (Wessler & Gaston), **27**: 475
Hepatic: see under Liver
Hepatitis
viral, transfusion-associated (review) (Mosley & Dull), **27**: 409
Hering-Breuer reflex, see Respiration
Hernia, diaphragmatic, circulatory embarrassment in patients with (clinical workshop), **29**: 164
HERSHEY, S. G., Circulatory Transport (report of meeting), **28**: 280
——, Clinical Workshop (editorial), **28**: 973
——, Current theories of shock (Review), **21**: 303
——, and ALTURA, B. M., Function of the reticuloendothelial system in experimental shock and combined injury, **30**: 138
——, and ALTURA, B. M., The effects of vasoactive drugs on reticuloendothelial function in experimental shock and combined injury, **30**: 144
——, ALTURA, B. M., and ORKIN, L. R., Therapy of intestinal ischemic (SMA) shock with vasoactive drugs, **29**: 466
——, MAZZIA, V. D. B., ALTURA, B. M., and GYURE, L., Effects of vasopressors on the microcirculation and on survival in hemorrhagic shock, **26**: 179
HERSHEY, W. N., WAHRENBROCK, E. A., and DE JONG, R. H., Residual curarization (current comment), **26**: 834
——, see DE JONG, R. H., jt. auth.
Hertz (editorial) (Smith), **30**: 125
HESSLER, O., REHDER, K., and CARVETH, S. W., Tracheostomy cannula for speaking during artificial respiration (current comment), **24**: 719
——, see REHDER, K., jt. auth.
HEUSER, G., Induction of anesthesia, seizures and sleep by steroid hormones, **28**: 173
Hexafluorenium Bromide (Mylaxen)
effects on neuromuscular blocking actions of succinylcholine, decamethonium, Imbretil and *d*-tubocurarine (Katz & others), **26**: 154
in preventing increase in intraocular pressure produced by succinylcholine (Katz & others), **29**: 70
potentiation of neuromuscular effect of succinylcholine by (Foldes & others), **21**: 50
role in interactions of neuromuscular blocking agents in man (Torda & others), **28**: 1010
Hexafluorodiethyl Ether (Indoklon)
effect on brain cholinesterase activity (Ling & others), **22**: 426
effect on cerebral metabolism (Ling & Krantz), **21**: 518
Hexamethylene-1,6-Biscarbaminoyl Choline: see Imbretil
Hexose
metabolism during halothane anesthesia in dogs (abstract), **25**: 96
Hiccups
during anesthesia, methylphenidate for treatment (clinical workshop), **31**: 89
during anesthesia, treatment (current comment), **28**: 463
HICKEY, R. F., GRAF, P. D., NADEL, J. A., and LARSON, C. P., JR., The effects of halothane and cyclopropane on total pulmonary resistance in the dog, **31**: 334
——, see MILLER, R. D., jt. auth.
HICKLER, F. D., Introduction—architectural planning and hospital ecology (Symposium on Design and Function of the Operating Suite and Special Areas), **31**: 103
HICKS, R. G., see LEWIS, J. J. jt. auth.
HILL, D. W., and LOWE, H. J., Comparison of concentration of halothane in closed and semi-closed circuits during controlled ventilation, **23**: 291
HILLMER, N. R. (with FOLDES, F. F.; MOLLOY, R. E., and MONTE, A. P.), Potentiation of the neuromuscular effect of succinylcholine by hexafluorenium, **21**: 50
——, and HUMMELL, P. R., (current comment), **22**: 1017
HINGSON, R. A., Obstetrics and anesthesiology (editorial), **26**: 378
HINTERNOFF, M., see SUGIOKA, K., jt. auth.
HIRANO, T., and SAITO, T., A new automatic rebreathing valve (clinical workshop), **31**: 84
Histamine
blood and plasma levels in case of urticaria and angioneurotic edema following *d*-tubocurarine administration (Westgate & others), **22**: 286
release following intravenous injection of *d*-tubocurarine (clinical workshop), **29**: 380
History of Anesthesia (annals of anesthetic history) (Keys), **30**: 447
History of Anesthesiology
anesthesiology in 1967 (Mark & others), **28**: 296
College of Physicians and Surgeons Jubilee (editorial), **18**: 295
curare, how it became a useful drug (Bennett), **28**: 446
HITOMI, Y., see YOKOTA, T., jt. auth.
HOBIKA, J. H., see LINDSLEY, O. R., jt. auth.
HOECH, G. P., JR., MATTEO, R. S., and FINK, B. R., Effect of halothane on oxygen consumption of rat brain, liver and heart and anaerobic glycolysis of rat brain, **27**: 770
——, see MATTEO, R. S., jt. auth.
HOFF, H. E., see GEDDES, L. A., jt. auth.
HOFFMAN, J. C., and DI FAZIO, C., A new approach to the evaluation of analgesics (abstract), **30**: 342
——, see MUNSON, E. S., jt. auth.

Hoffman, J. I. E., see Smith, N. T., jt. auth.
Hoffmann, K., (current comment), **22**: 640
Holaday, D. A., (current comment), **22**: 643
——, and Rattenborg, C. C., Automatic lung ventilators (review), **23**: 493
——, see Kristoffersen, M. B., jt. auth.
——, see Matz, G. J., jt. auth.
Holderness, M. C., Chase, P. E., and Dripps, R. D., A narcotic analgesic and a butyrophenone with nitrous oxide for general anesthesia, **24**: 336
Holl, J. W., and Shnider, S. M., Methoxyflurane concentrations from the Cyprane Inhaler (clinical worshop), **28**: 770
Hollander, C. S., see Selenkow, H. A., jt. auth.
Holman, J. E., see Morrow, D. H., jt. auth.
Holmdahl, M. H., The respiratory care unit (review), **23**: 559
Holmes, Oliver Wendell, and anesthesia (correspondence) (Beecher), **29**: 1068
Holt, M. H., Central venous pressures via peripheral veins (clinical workshop), **28**: 1093
Holtey, W., (current comment), **22**: 636
Homogenates: see Placenta, homogenates
Homotransplantation
  cardiac, anesthesia for (Keats & others), **30**: 192
  renal, anesthetic aspects (Vandam & others), **23**: 783
  renal, anesthesia for (abstract), **30**: 335
Hon, E. H., Fetal electrocardiography (review), **26**: 477
Hood: see under Oxygen
Hood, N., see Cohen, E. N., jt. auth.
HOPE
  in Indonesia (current comment), **22**: 853
Hopps, J. A., Shock hazards in operating rooms and patient-care areas (symposium article), **31**: 142
Hormones, steroid
  induction of anesthesia, seizures and sleep by (Heuser), **28**: 173
Horn, B., (current comment), **23**: 583
Hornbein, T. F., (current comment), **22**: 1013
——, Association of University Anesthetists (report of meeting), **29**; 1074
——, Fortner, R. W. F., and Casselle, D. C., The effect of ventilation on cerebral oxygenation during hypothermia (abstract), **30**: 342
——, Martin, W. E., Bonica, J. J., Freund, F. G., and Parmentier, P., Nitrous oxide effects on the circulatory and ventilatory responses to halothane, **31**: 250
——, and Stanell, R. E., The effect of mainstream nebulization on oxygenation with IPPB (current comment), **24**: 580
——, see Cheney, F. W., jt. auth.
——, see Freund, F. G., jt. auth.
——, see Martin, W. E., jt. auth.
——, see Morgan, B. C., jt. auth.
Horrocks, L. A., see Albin, M. S., jt. auth.
Hoskin, F. C. G., see Matteo, R. S., jt. auth.
Hospitals
  architecture (Hickler), **31**: 103
  children and parents (Smith), **25**: 461
  community, anesthetic management for cardiopulmonary bypass in (Pierce & others), **22**: 452
  community, intracardiac surgery in (editorial), **22**: 485
Houde, R. W. (with Bellville, J. W., and others), Relative respiratory depressant effects of oxymorphone (Numorphan) and morphine, **21**: 397
Houston, J. B., see Mazze, R. I., jt. auth.
Howard, A. R., Tongue blade modification for endotracheal anesthesia (current comment), **25**: 723
Howland, W. S. (with Bellville J. W., and Bross, I. D. J.), Postoperative nausea and vomiting IV: factors related to postoperative nausea and vomiting, **21**: 186
——, (with Bellville, J. W., and others), Relative respiratory depressant effects of oxymorphone (Numorphan) and morphine, **21**: 397
——, and Schweizer, O., Blood warming and hemolysis (current comment), **26**: 223
——, Schweizer, O., and Bellville, J. W., The recovery room: a clinical laboratory, **21**: 251
——, see Boyan, C. P., jt. auth.
——, see Jacobs, R. G., jt. auth.
——, see Schweizer, O., jt. auth.
Huddy, R. A., see Weisman, H., jt. auth.
Huffington, P. E., see Craythorne, N. W. B., jt. auth.
Hulka, J. F., see Phillips, O. C., jt. auth.
Humid atmospheres, inhaled, systemic and pulmonary changes with (medical intelligence) (Graff & Benson), **30**: 199
Humidification
  effect of mainstream nebulization on oxygenation with IPPB (current comment), **24**: 580
  of Air-Shields Respirator (current comment), **26**: 573
  of inspired air (abstract), **22**: 134
Humidity
  in inhalational therapy (review) (Tovell & D'Ambruoso), **23**: 452
Hummell, P. R., see Hillmer, N. R., jt. auth.
Humphrey, L. J., see Wingard, D. W., jt. auth.
Humphries, J. H., see Keister, H. F. S., jt. auth.
Hunt, R. E. (with Artusio, J. F., and others), A clinical evaluation of methoxyflurane in man, **21**: 512
Hunter, F. P., Jr., see Munson, E. S., jt. auth.
Hyaline membrane disease
  management with new mechanical ventilator (abstract), **28**: 237
Hydrate theory of anesthesia (Eger & others), **30**: 129; (Eger & Shargel), **30**: 136
Hydration, acute for preventing hypotension of spinal anesthesia in parturients (clinical workshop), **29**: 374
Hydrocarbon
  -epinephrine disturbance (editorial), **23**: 388
4-Hydroxybutyrate

blood levels of, correlation with consciousness (correspondence), **26**: 694
correlation of blood levels with state of consciousness (Helrich & others), **25**: 771
oral premedication of children with (abstract), **26**: 259
Hydroxyzine (Atarax)
cardiovascular effects of sedative doses (Andersen & Gravenstein), **27**: 272
double-blind study (Elliott & others), **31**: 233
Hylton, R. R., see Eger, E. I., II, jt. auth.
——, see Smith, R. H., jt. auth.
Hyman, A. I., and Pederson, H., Nasopharyngeal stenosis (clinical workshop), **31**: 480
Hyperbaric Oxygenation: see Oxygen, hyperbaric
Hypercapnia: see Hypercarbia
Hypercarbia: see also Carbon Dioxide
during cyclopropane anesthesia, threshold for arrhythmias produced in patients with cardiovascular disease (Strong & others), **29**: 295
response to carbon dioxide and cyclopropane (Cullen & others), **31**: 407
Hypercitremia
experimental, hemodynamic effects of (Corbascio & Smith), **28**: 510
Hyperkalemia following administration of succinylcholine to the traumatized patient (Mazze & others), **31**: 540
Hyperosmolality
serum, urea induced, and central nervous system (Benson & Murphy), **22**: 24
Hyperparathyroidism
preoperative and postoperative care (review) (Bernstein & Guri), **24**: 448
Hypertension
(cerebrospinal fluid), experimental correction of hypercapnic intracranial (Dos & others), **23**: 46
control of abnormal responses by halothane (current comment), **24**: 885
"cyclopropane," caused by respiratory acidosis? (Li & Etsten), **22**: 49
during Innovar and Innovar-N_2O anesthesia (clinical workshop), **31**: 476
increased incidence of paradoxical, following resection of aortic coarction under halothane anesthesia (abstract), **22**: 132
renal, of humoral origin, diagnosis and treatment (review) (Merrill), **24**: 479
reserpine treatment and anesthesia (medical intelligence) (Ominsky & Wollman), **30**: 443
Hyperthermia: see also Fever
acute, oxidative phosphorylation in (medical intelligence) (Wang & others), **30**: 439
caused by ventilator, prevention of (clinical workshop), **29**: 1220
during anesthesia (clinical workshop), **30**: 472
immediate postoperative, septicemia as cause of (current comment), **27**: 329
malignant (correspondence), **31**: 585
malignant, during anesthesia (clinical workshop), **31**: 97
sudden unexplained, during anesthesia, disturbances of oxidative-phosphorylation mechanism as possible etiological factor (abstract), **27**: 231
while using ventilator (clinical workshop), **28**: 1106
Hyperthyroidism
effect on cyclopropane requirement (MAC) in the rat (abstract), **29**: 197
effect on halothane and oxygen requirements (abstract), **29**: 172
effects on cyclopropane requirements in rats (Munson & others), **29**: 1094
effects on halothane and oxygen requirements in dogs (Babad & Eger), **29**: 1087
surgery for, physiologic, pharmacologic and therapeutic considerations in (review) (Selenkow & Hollander), **24**: 425
Hyperventilation: see also Hypocarbia, Respiration
effect on cerebral circulation (editorial) (Cohen), **29**: 865
effect on subsequent cerebral infarction (Soloway & others), **29**: 975
effects on cerebral anesthetic equilibration (Munson & Bowers), **28**: 377
hypoxia following (Sullivan & Patterson), **29**: 981
in craniotomy for brain tumor (Schettini & others), **28**: 363
passive, initiation of spontaneous ventilation after (Edelist & Osorio), **31**: 222
spinal reflexes and (Kitahata & others), **31**: 321
Hypnosis
activity of chloral hydrate (abstract), **23**: 155
Hypocalcemia: see Calcium
Hypocapnia: see Hypocarbia
Hypocarbia: see also Carbon Dioxide, Hyperventilation
effect on postoperative human reaction time (abstract), **30**: 354
effects on cerebral metabolism and blood flow (Michenfelder & Theye), **31**: 449
response to carbon dioxide and cyclopropane (Cullen & others), **31**: 407
splanchnic circulation during nitrous oxide anesthesia and (Cooperman & others), **29**: 254
Hyponatremia: see also under Sodium
after fresh-water aspiration (Modell & others) **30**: 421
Hypophysectomy
endocrine consequences of (review) (Pearson), **24**: 563
Hypotension
acute hemorrhagic, effect of phenylephrine on survival and acid-base balance in dogs with (Loehning & others), **21**: 363
anesthesia: surgeon's view (editorial) (McLaughlin), **27**: 239
changes in muscle oxygen tension associated with (abstract), **23**: 166
clinical evaluation of sodium nitroprusside (Moraca & others), **23**: 193
deliberate (review) (Larson), **25**: 682

deliberate, change in physiological dead space during (Askrog & others), **25**: 744
deliberate for management of threatening hemorrhage (clinical workshop), **29**: 155
during anesthesia and surgery, treatment and prophylaxis (abstract), **21**: 118
hemorrhagic, effect on evoked potentials in spinal cord (abstract), **22**: 147
induced for extensive surgery in infant (current comment), **27**: 698
induced, management of hemorrhage following (clinical workshop), **28**: 1104
induced, skeletal-muscle oxygen tension and metabolism during (Willenkin & Greene), **24**: 168
influence of spinal heminanalgesia on incidence of (Tanasichuk & others), **22**: 74
postoperative idionodal, treated with minimal bicarbonate (current comment), **28**: 226
profound, in neurosurgery, open-chest vs. closed-chest techniques (Michenfelder & others), **24**: 177
pulse rate in elderly patients during (clinical workshop) **30**: 328
supine syndrome and giant ovarian cyst (current comment), **27**: 515
with spinal anesthesia, physiologic treatment of (abstract), **28**: 276
Hypothalamus
central nervous actions of halothane affecting the systemic circulation (Price & others), **24**: 770
central sympathetic excitation caused by cyclopropane (Price & others), **30**: 426
effects of cyclopropane, halothane and procaine on the vasomotor "center" of the dog (Price & others), **26**: 55
enhancement by cyclopropane and halothane of heart rate responses to sympathetic stimulation (Price & others), **29**: 478
hemodynamic and central nervous actions of cyclopropane in the dog (Price & others), **24**: 1
responses to hypothalmic and mesencephalic stimulation in dogs, effects of anesthetics (abstract), **27**: 223
Hypothermia
arterial oxygenation during (Hedley-Whyte & others), **26**: 595
and cardiopulmonary bypass, controlled acid-base status with (Carson & Morris), **23**: 618
closed-chest technique of profound, in neurosurgery, physiologic studies following (Michenfelder & others), **25**; 131
contolled acid-base status with cardiopulmonary bypass and (current comment), **24**: 400
effect in dogs on anesthetizing and apneic doses of inhalation agents (Regan & Eger), **28**: 689
effect of, and hyperventilation and urea on circulation and cerebrospinal fluid pressure in dog (Lund & others), **26**: 45
effect of ventilation on cerebral oxygenation during (abstract), **30**: 342
effect on canine brain and whole-body metabolism (Michenfelder & Theye), **29**: 1107
effect on circulation and cerebrospinal fluid pressure in dog (Young & others), **24**: 313
effects of experimental subarachnoid perfusion cooling and rewarming on spinal cord (abstract), **23**: 139
effects of sustained perfusion cooling of subarachnoid space (Albin & others), **24**: 72
effects of vagal blockade on respiratory work in hypothermic animal (Hall & Salzano), **21**: 281
effects on endocrine response to injury (review) (Van Brunt & Ganong), **24**: 500
immersion, device (current comment), **23**: 395
inadvertent in infant neurosurgery, effects of (Hackett & Crosby), **21**: 356
induced, following cerebral anoxia (Strong & Keats), **28**: 920
inexpensive device for maintenance of (current comment), **25**: 85
intravascular hemolysis following urea administration during (case report) (current comment), **25**: 576
local, of urinary bladder during transurethral surgery (Franks & Cockett), **22**: 15
moderate, and at normothermia during constant-depth halothane anesthesia, ventilatory response to hypercapnia and hypoxia (Regan & Eger), **27**: 624
multichannel electroencephalography in (Pearcy & Virtue), **21**: 35
nerve conduction velocity during (de Jong & others), **26**: 805
operations, cryproteinemia and hyperheparin states, role in bleeding during and after (abstract), **24**: 141
osmotic fragility of human red cells caused by urea administration during (current comment), **26**: 318
oxygen utilization by dogs after administration of potassium perchlorate during (Tanaka & others), **22**: 20
profound, during cardioplegia, physiologic reactions during (Stephen & others), **22**: 873
profound, induced by direct blood stream cooling (abstract), **22**: 147
respiratory obstruction in normothermia and (abstract), **21**: 93
respiratory threshold in (abstract), **28**: 263
Hypothyroidism
effect on cyclopropane requirement (MAC) in the rat (abstract), **29**: 197
effect on halothane and oxygen requirements (abstract), **29**: 172
effects on cyclopropane requirement in rats (Munson & others), **29**: 1094
effects on halothane and oxygen requirements in dogs (Babad & Eger), **29**: 1087
Hypoventilation: see Respiration
Hypoxemia
avoidance during endotracheal suction (clinical workshop), **31**: 473

Hypoxia: see also under Oxygen
cerebral, hyperventilation with oxygen, possible cause of (Sugioka & Davis), **21**: 135
posthyperventilation: theoretical considerations in man (Sullivan & Patterson), **29**: 981

I

Ichiyanagi, K., see Levy, J. V., jt. auth.
Ikeda, K., see Yamamura, H., jt. auth.
Imbretil (Hexamethylene-1,6-Biscarbaminoyl Choline)
action of, on isolated human intercostal muscle (Sabawala & Dillon), **22**: 569
mechanism of action (Bowman & others), **22**: 573
Imbretil (Hexamethylene Carbaminoylcholine)
neuromuscular blocking actions of, effects of hexafluorenium and edrophonium (Katz & others), **26**: 154
Imparato, A. M., Reppert, E. H., Spielberger, L., and Mazzia, V. D. B., Cardiac pacemakers (correspondence), **28**: 790
Impedance in anesthesiology (clinical workshop), **30**: 663
Impedance Plethysmography (abstract), **23**: 162
Imredy, D. S., see Heller, M. L., jt. auth.
Inamoto, A., see Muneyuki, M., jt. auth.
Incubators
hazard of placing infants anesthetized with ether in (current comment), **24**: 119
Index, anesthetic: see Anesthesia, anesthetic index
Indigo carmine, vasopressor effect of (abstract), **29**: 188
Indoklon: see Hexafluorodiethyl Ether
Induction: see under Anesthesia
Infants: see also under Pediatrics; Children; specific diseases and procedures
acid-base equilibrium during cyclopropane anesthesia and operation in (Reynolds), **27**: 127
anesthesia for (review) (Rackow & Salanitre), **30**: 208
anesthesia for cardiovascular surgery in (Strong & others), **27**: 257
anesthesia set for (current comment), **21**: 776
anesthetized with ether, hazard of placing in incubators (current comment), **24**: 119
apneic anesthetized, mechanics of breathing in (Reynolds & Etsten), **27**: 13
bronchiolitis in, pathophysiology and management (Downes & others), **29**: 426
bronchiolitis in, pathophysiology and management (editorial) (Swyer & Levinson), **29**: 403
controlled ventilation in newborn (current comment), **24**: 871
curarized, volume-pressure relations of respiratory system of (Nightingale & Richards), **26**: 710
cyclopropane anesthesia in, comparison of spontaneous and controlled breathing during (Freeman & others), **25**: 597
induced hypotension for extensive surgery in (current comment), **27**: 701
inhalational therapy in pediatrics (review) (Smith), **23**: 548
inspiratory and expiratory carbon dioxide concentrations during halothane anesthesia in (Podlesch & others), **27**: 823
mechanical ventilation of (technical note) (Haddad & Richards), **29**: 365; (current comment), **27**: 692
mechanical ventilator for (clinical workshop), **29**: 591
nasotracheal tubes used in (resistance of), **29**: 588
neuromuscular transmission in newborn (Churchill-Davidson & Wise), **24**: 271
newborn, blood pressure determination with photosphygmometer in (Williams & Eastwood), **22**: 237
newborn, closed chest cardiac massage in (current comment), **22**: 644
newborn, pneumothorax, spontaneous, in (clinical workshop), **28**: 629
newborn, respiratory physiology in (review) (Avery & Norman), **26**: 510
newborn, response to drugs (review) (Nyhan & Lampert), **26**: 487
newborn, resuscitation of (correspondence), **28**: 789
newborn, resuscitation of depressed (review) (Smith & Moya), **26**: 549
newborn, thermal homeostasis in (review) (Adamsons & Towell), **26**: 531
normal, pulmonary function in (editorial), **25**: 593
oro-endotracheal tube brace for (clinical workshop), **30**: 333
premedication utilizing tranquilizers and newer narcotics (abstract), **22**: 142
pressure-flow characteristics and dead spaces of endotracheal tubes used in (Glauser & others), **22**: 339
pulmonary ventilator for (current comment), **25**: 712
pulmonator, adaptation of (current comment), **25**: 574
respiratory function during anesthesia (abstract), **22**: 140
respiratory monitor for (current comment), **21**: 774
respiratory studies with Columbia pediatric circle valve (clinical workshop), **30**: 330
response to muscle relaxants (Lim & others), **25**: 161
steroid and antihistaminic therapy for postintubation subglottic edema in (Deming & Oech), **22**: 933
surgery, see under Surgery
tracheoesophageal cleft (clinical workshop), **28**: 633
ventilatory response of, to airway resistance (Graff & others), **27**: 168
ventilatory response to added dead space (abstract), **26**: 254
Infarction, myocardial hypoxemia in (abstract), **29**: 211
Infrared Analysis

correction factors for carbon dioxide pressure broadening by nitrogen, nitrous oxide and cyclopropane (Severinghaus & others), **22**: 429

Infrared Spectroscopy
calibration of anesthesia vaporizers by (current comment), **25**: 107

Infusion
reactions and complications during (review) (Seldon), **22**: 810
therapy, crystalloid, in intraoperative support of blood volume (abstract), **28**: 239

Inglove, H., see Walts, L. F., jt. auth.

Inhalation Anesthesia: see Anesthesia, inhalation

Inhalational Therapy
acute chemical injury of airway and lungs, six cases (Conner & others), **23**: 538
advances and retreats (Barach), **22**: 367
an adverse effect (editorial) (Bushnell), **29**: 1085
aerosols, bronchodilators and mucolytic agents (review) (Lovejoy & Morrow), **23**: 460
asepsis for (review) (Knudsin & Walter), **23**: 507
automatic lung ventilators (review) (Holaday & Rattenborg), **23**: 493
clinical significance of reflexes from the respiratory system (review) (Widdicombe), **23**: 434
effects of ultrasonically-produced aerosols on airway resistance (Cheney & Butler), **29**: 1099
emergency treatment of acute respiratory failure (review) (Spence), **23**: 524
for chronic lung disease (review) (Sega & others), **23**: 513
high altitude physiology in relation to (Safar & Tenicela), **25**: 515
historical background (Barach), **23**: 407
humidity in (review) (Tovell & D'Ambruoso), **23**: 452
in pediatrics (review) (Smith), **23**: 548
intermittent positive pressure breathing (review) (Pierce & Vandam), **23**: 478
nomograms for gas mixtures in (clinical workshop), **29**: 830
oxygen, catheter, mask, hood and tent (review) (Miller), **23**: 445
oxygen toxicity (review) (DuBois), **23**: 473
pulmonary function and tests for ventilatory adequacy (review) (Mitchell), **23**: 422
respiratory care unit (review) (Holmdahl), **23**: 559
service (review) (Saklad), **23**: 569

Injections: see also under specific agents and drugs
accidental intra-arterial, thiopental (review) (Stone & Connelly), **22**: 995
epidural, study of dural penetration following, and influence of epinephrine (abstract), **28**: 261
intrathecal detergents (editorial), **23**: 123
intrathecal detergents, experimental study (Smith & Conner), **23**: 5

Injury
effects of preanesthetic medication, anesthesia and hypothermia on endocrine response to (review) (Van Brunt & Ganong), **24**: 500

Innovar: see also Droperidol-Fentanyl
as supplement to regional anesthesia (clinical workshop), **31**: 574
clinical studies with (current comments), **28**: 458
effect on labyrinth (Dowdy & Moore), **30**: 604
hypertension during anesthesia with (clinical workshop), **31**: 476
nitrous oxide and, respiratory effects in man (abstract), **28**: 245
nitrous oxide and, urinary epinephrine and norepinephrine during anesthesia with (Giesecke & others), **28**: 701
-nitrous oxide anesthesia, urinary epinephrine and norepinephrine during (correspondence), **29**: 167, 168

Inspiration: see respiration

Inspired Concentration: see under Anesthesia; names of specific agents and techniques

Instruments: see Apparatus

Intensive Care Units
planning (symposium article) (Wilklund), **31**: 122
and recovery room, design of (Wilkund), **26**: 667
at University Hospital, Copenhagen (Rosen & Secher), **24**: 855
workshop on (National Research Council—Committee on Anesthesia), **25**: 192

Intermittent Positive Pressure Breathing: see also under Respiration
-aerosol therapy, simplified apparatus for (current comment), **26**: 362

Intermittent positive-pressure ventilation, blood volume changes during (Morgan & others), **30**: 297

International Symposium on "CSF and CBF" (report of meeting) (Severinghaus), **29**: 1232; (Larson), **29**: 1234

Intestines
effects of halothane on gastrointestinal motility (Marshall & others), **22**: 363
obstruction, hazards of nitrous oxide anesthesia in (Eger & Saidman), **26**: 61
tone, influence of anesthetic agents and adjuvants (abstract), **21**: 96

Intracath Intravenous Unit
for caudal anesthesia (current comment), **24**: 252

Intrathecal Anesthesia: see Anesthesia, intrathecal

Intrathecal block: see nerve block

Intravenous Anesthesia: see also under Anesthesia
regional, symposium on (report of meeting), **28**: 279

Intravenous Cannula
new plastic (current comment), **25**: 570

Intravenous Medication
aids for (current comment), **24**: 116

Intravenous Pole
modified head for (current comment), **25**: 715

Intubation
aid for blind naso-endotracheal (current comment), **27**: 93
orticosteroids for prophylaxis of postintubation inflammation (abstract), **26**: 215
endotracheal, circulatory responses to, in light general anesthesia, effect of atropine and phentolamine (DeVault & others), **21**: 360

XUM

endotracheal, effects on blood pressure and pulse rate (Wycoff), **21**: 153
endotracheal, in patient with ankylosing spondylitis of cervical spine (current comment), **26**: 365
nasal, anesthetizing the nasopharynx prior to (clinical workshop), **30**: 111
nasotracheal device (current comment), **23**: 130
nasotracheal, in mandibular prognathism (clinical workshop), **29**: 1059
nasotracheal, possible relation of laryngeal band to (current comment), **28**: 466
steroid and antihistaminic therapy for postintubation subglottic edema in infants and children (Deming & Oech), **22**: 933
tracheal, and direct laryngoscopy, modified technique for (current comment), **27**: 321
IPPV, see Intermittent positive-pressure ventilation
Irradiation
effect on anesthetic agents (current comment), **26**: 106
IRWIN, R. H., see EGER, E. I., II, jt. auth.
Ischemia
cerebral in rabbits, effect of halothane on (abstract), **27**: 242
ISOMATSU, T., see OYAMA, T., jt. auth.
Isoproterenol
alteration of effect by halothane (abstract), **30**: 350
in therapy of intestinal ischemic shock (Hershey & others), **29**: 466
Isotopes: see Radioisotope Tracers
ISTREL, J. S., see DOBKIN, A. B., jt. auth.
IVANKOVIC, A., see FEINGOLD, A., jt. auth.
IWATSUKI, N., see SHIMOSATO, S., jt. auth.

J

JACOBS, A. G., An anesthetic machine for small mammals (current comment), **28**: 217
JACOBS, J. B., see JACKSON, S. H., jt. auth.
JACOBS, R. G., and HOWLAND, W. S., (current comment), **23**: 590
——, HOWLAND, W. S., and GOULET, A. H., Serial microhematocrit determinations in evaluating blood replacement, **22**: 342
——, and KING, H. K., A positioning guide for intrathecal blocks (clinical workshop), **28**: 627
JACKSON, J. A., see BUCKLEY. J. J., **22**: 723
JACKSON, L., and KEATS, A. S., Mechanism of brachial plexus palsy following anesthesia, **26**: 190
JACKSON, R. R., Endotracheal cuff arrangement to facilitate topical anesthetization (current comment), **25**: 723
JACKSON, S. H., Knee jerk reflex for evaluating effectiveness of sciatic nerve block (current comment), **27**: 690
——, JACOBS, J. B., and EPSTEIN, R. A., A radiographic approach to celiac plexus block (clinical workshop), **31**: 373
——, see EPSTEIN, R. A., jt. auth.
JACOBSON, I., see MCDOWALL, D. G., jt. auth.
JALOWAYSKI, A., see NAGEL, E. L., jt. auth.
JAMES, F. M., III, The effects of cyclopropane anesthesia without surgical operation on mental functions of normal man, **30**: 264
JAMES, L. S., (current comment), **22**: 644
——, Maternal hyperventilation during labor (editorial), **28**: 804
——, Physiologic adjustment at birth. Effects of labor, delivery and anesthesia on the newborn (review), **26**: 501
——, The effect of pain relief for labor and delivery on the fetus and newborn (review), **21**: 405
——, see MORISHIMA, H. O., jt. auth.
——, see SHNIDER, S. M., jt. auth.
JAMES, O. C., and MARX, C. F., Spontaneous bilateral pneumothorax in a newborn infant (clinical workshop), **28**: 629
JEGIER, W., see DAVENPORT, H. T., jt. auth.
Jehova's Witness with a low hematocrit, anesthesia for (clinical workshop), **29**: 847
JENICEK, J. A., (current comment), **22**: 637
——, see DAVIS, P., jt. auth.
——, see MUNSON, W. M., jt. auth.
——, see PERRY, L. B., jt. auth.
JENKINS, M. T., and LUHN, N. R., Active management of tetanus based on experience of an anesthesiology department (review), **23**: 690
——, see CALE, J. O., jt. auth.
——, see GIESECKE, A. H., jt. auth.
——, see STANLEY, V. F., jt. auth.
JENTILE, K., see BERMAN, R. A., jt. auth.
JEPHCOTT, J. A., Halothane and hepatic necrosis (current comment), **24**: 746
JIMÉNEZ-VÉLEZ, J. L., see COLÓN-YORDÁN, E., jt. auth.
JOAS, T. A., and STEVENS, W. C., Convulsive properties of Ethrane, fluroxene, halothane and chloroform anesthesia (abstract), **30**: 343
JOHANSEN, S. H., see ANDERSEN, N., jt. auth.
JOHNSON, C. G., see PATTERSON, J. F., jt. auth.
JOHNSON, C. H., see POE, M. F., jt. auth.
JOHNSON, E. A., see EGER, E. I., II, jt. auth.
JOHNSTON, G. I., see UNDERWOOD, R. J., jt. auth.
JOHNSTONE, M., Halothane and hepatic necrosis (current comment), **24**: 744
——, Halothane: the first five years (review), **22**: 591
JONES, C. S., Specialty of anesthesia (current comment), **25**: 872
JONES, F. L., Increasing postoperative ventilation: a comparison of five methods (clinical workshop), **29**: 1212
JONES, L., see WOLFSON, B., jt. auth.
JONES, R. E., DEUTSCH, S., and TURNDORF, H., Effects of atropine on cardiac rhythm in conscious and anesthetized man, **22**: 67
——, GULDMANN, N.; LINDE, H. W.; DRIPPS, R. D., and PRICE, H. L., Cyclopropane anesthesia. III. Effects of cyclopropane on respiration and circulation in normal man, **21**:380
——, LINDE, H. W., DEUTSCH, S. DRIPPS, R. D., and PRICE, H. L., Hemodynamic actions of diethyl ether in normal man, **23**: 299
JOYCE, T. H., see TOLMIE, J. D., jt. auth.

K

KADIS, L. B., SMITH, N. T., EGER, E. I., II, WITCHER, C., and CULLEN, D., Indirect methods for monitoring the performance of the heart during anesthesia: the time interval of electrical and mechanical systole (abstract), **30**: 343

——, see SMITH, N. T., jt. auth.

KAIN, M. L., and NUNN, J. F., Fresh gas economics of the Magill circuit, **29**: 964

KAITO, K., see YAMAMURA, H., jt. auth.

KALLOS, T., and SMITH, T. C., Naloxone-oxymorphone interaction in man (abstract), **30**: 343

KALOW, W., Pharmacogenetics and anesthesia (review), **25**: 377

KAMEN, J. M., An automatic sighing device (current comment), **26**: 575

KANANEN, G., see MAES, R., jt. auth.

KANE, A. V'R., see BITTRICH, N. M., jt. auth.

KANTT, O., see GRAFF, T. D., jt. auth.

KARETAS, A. I., see RUSY, B. F., jt. auth.

KARIS, J. H., GISSEN, A. J., and NASTUK, W. L., The effect of volatile anesthetic agents on neuromuscular transmission, **28**: 128

——, GISSEN, A. J., and NASTUK, W. L., Mode of action of diethyl ether in blocking neuromuscular transmission, **27**: 42

——, KATZ, R. L., and GISSEN, A. J., Neuromuscular block with succinylcholine and decamethonium (correspondence), **29**: 166

——, see BARATZ, R. A., jt. auth.

——, see GISSEN, A. J., jt. auth.

——, see KATZ, R. L., jt. auth.

KARL, W. F., (current comment), **23**: 584

KARLEEN, C. I., see BELIN, R. P., jt. auth.

KARLER, R. (with WOODBURY, DIXON M.), The role of carbon dioxide in the nervous system (Review), **21**: 686

KARLSON, K. E., see GLIEDMAN, M. L., jt. auth.

KARP, M., see CHUN, L., jt. auth.

KATZ, J., The distribution of ^{14}C-labeled lidocaine injected intravenously in the rat, **29**: 249

——, Stability of local anesthetics after autoclaving determined by gas chromatography (technical notes), **27**: 835

——, Stellate ganglion block in a patient with cryofibrinogenemia (clinical workshop), **28**: 628

——, KNOTT, L. K., and FELDMAN, D. J., Brachial plexus infiltration with dilute phenol solution in the management of upper extremity spasticity (current comment), **27**: 87

——, see RICHARDS, R. K., jt. auth.

KATZ, R. L., (current comment), **22**: 325

——, Antiarrhythmic action of N,N-bis (phenylcarbamoylmethyl) dimethyl ammonium chloride (QX-572) in cat and dog, **25**: 291

——, Antiarrhythmic and cardiovascular effects of synthetic oxytocin, **25**: 653

——, Comparison of electrical and mechanical recording of spontaneous and evoked muscle activity. The clinical value of continuous recording as an aid to the rational use of muscle relaxants during anesthesia, **26**: 204

——, Effects of alpha and beta adrenergic blocking agents on cyclopropane-catecholamine cardiac arrhythmias, **26**: 289

——, Epinephrine and PLV-2: cardiac rhythm and local vasoconstrictor effects, **26**: 619

——, A nerve stimulator for the continuous monitoring of muscle relaxant action (current comment), **26**: 832

——, Neuromuscular effects of diethyl ether and its interaction with succinylcholine and *d*-tubocurarine, **27**: 52

——, Neuromuscular effects of *d*-tubocurarine, edrophonium and neostigmine in man, **28**: 327

——, Pyridostigmin (mestinon) as an antagonist of *d*-tubocurarine, **28**: 528

——, Symposium on Intravenous Regional Anesthesia (report of meeting), **28**, 280

——, EAKINS, K. E., and LORD, C. O., The effects of hexafluorenium in preventing the increase in intraocular pressure produced by succinylcholine, **29**: 70

——, and EPSTEIN, R. A., The interaction of anesthetic agents and adrenergic drugs to produce cardiac arrhythmias, **29**: 763

——, and GISSEN, A. J., Neuromuscular and electromyographic effects of halothane and its interaction with *d*-tubocurarine in man, **28**: 564

——, GISSEN, A. J., and KARIS, J. H., The effects of hexafluorenium and edrophonium on the neuromuscular blocking actions of succinylcholine, decamethonium, Imbretil and *d*-tubocurarine, **26**: 154

——, MATTEO, R. S., and PAPPER, E. M., The injection of epinephrine during general anesthesia with halogenated hydrocarbons and cyclopropane in man, **23**: 597

——, NGAI, S. H., and PAPPER, E. M., The effect of alkalosis on the action of the neuromuscular blocking agents, **24**: 18

——, WEINTRAUB, H. D., and PAPPER, E. M., Anesthesia, surgery and Rauwolfia, **25**: 142

——, and WOLF, C. E., Neuromuscular and electromyographic studies in man; effects of hyperventilation, carbon dioxide inhalation and *d*-tubocurarine, **25**: 781

——, WOLF, C. E., and PAPPER, E. M., The nondepolarizing neuromuscular blocking action of succinylcholine in man, **24**: 784

——, see BARTELSTONE, H. J., jt. auth.

——, see GISSEN, A. J., jt. auth.

——, see KARIS, J. H., jt. auth.

——, see LORD, C. O., jt. auth.

——, see MATTEO, R. S., jt. auth.

KATZUNG, B. C., see MILLER, R. D., jt. auth.

KAY, B., and ALLAN, D., A small volume suction apparatus (current comment), **25**: 400

KAYA, K., see DOWDY, E. G., jt. auth.

KAZANJIAN, N. A., see PIERCE, J. A., jt. auth.

KEASLING, H. H., see EGER, E. I., jt. auth.

KEATS, A. S., Pain, analgesia and anti-analgesia (editorial), **26**: 1

——, Preoperative use of antiemetics (editorial), **21**: 213
——, A simple and versatile mechanical ventilator for infants (clinical workshop), **29**: 591
——, (with Fromberg, H. F., and Mannheimer W. H.), Succinyldicholine esterase activity in stored citrated blood, **21**: 64
——, and Girgis, K. Z., Respiratory depression associated with relief of pain by narcotics, **29**: 1006
——, Strong, M. J., Girgis, K. Z., and Goldstein, A., Observations during anesthesia for cardiac homotransplantation in ten patients, **30**: 192
——, Telford, J. and Kurosu, Y., "Potentiation" of meperidine by promethazine, **22**: 34
——, see Allison, S. C., jt. auth.
——, see Attas, M., jt. auth.
——, see Jackson, L., jt. auth.
——, see Papadopoulos, C. N., jt. auth.
——, see Strong, M. J., jt. auth.
——, see Telford, J. jt. auth.
Kennaghan, J. B., The determination of lidocaine and prilocaine in whole blood by gas chromatography, **29**: 110
Keenan, R. L., Prevention of increased pressures in anesthetic vaporizers with a unidirectional valve (current comment), **24**: 732
Keéri-Szàntò, M., (current comment), **22**: 850
——, Halothane and hepatic necrosis (current comment), **24**: 594
——, and Leduc, C., Anesthetic time-dose curves. 4. The influence of respiratory parameters upon intravenous drug requirements during surgical procedures, **23**: 231
——, see Carignan, G., jt. auth.
Keet, J. E., Valentine, G. W., and Riccio, J. S., an arrangement to prevent pressure effect on the Vernitrol vaporizer (current comment), **24**: 734; 742
Keister, H. F. S., Humphries, J. H., and Rowland, W. V., Recovery times of dogs after use of fluorinated anesthetic agents (current comment), **26**: 102
Kellogg, R. H., Acclimatization to carbon dioxide (review), **21**: 634
Kelly, A. B., see Butler, R. A., jt. auth.
Kelly, D. E., Fine structure of cell contact and the synapse, **28**: 6
Kelman, G. R., and Prys-Roberts, C., A modified cuvette densitometer (clinical workshop), **28**: 1101
——, see Greenbuam, R., jt. auth.
Kemmerer, W. T., see Kirby, R. R., jt. auth.
Kennedy, T. J., The effect of carbon dioxide on the kidney (review), **21**: 704
Kennedy. W. F., Jr., Innovar as a supplement to regional anesthesia (clinical workshop), **31**: 574
——, and Akamatsu, T., Subarchnoid block with phenol-glycerine for the relief of intractable pain (current comment), **24**: 584
——, Bonica, J. J., Akamatsu, T. J., Ward, R. J., Martin, W. E., and Grinstein, A., Cardiovascular and respiratory effects of subarachnoid block in the presence of acute blood loss, **29**:29
——, Sawyer, T. K., Gerbershagen, H. U., Cutler, R. E., Allen, G. D., and Bonica, J. J., Systemic cardiovascular and renal hemodynamic alterations during peridural anesthesia in normal man, **31**: 414
——, see Freund, F. G., jt. auth.
——, see Parks, C. R., jt. auth.
Kenny, G. E., see Fink, B. R., jt. auth.
Kepes, E. R., see Duncalf, D., jt. auth.
Keys, T. A., The early pneumatic chemists and physicians: their influence on the development of surgical anesthesia (annals of anesthetic history), **30**: 447
Khalili, A. A., and Betts, H. B., Isolated block of musculocutaneous and perineal nerves in the management of spasticity with special reference to use of a nerve stimulator (current comment), **28**: 219
Kidney
anatomy and physiology of intrarenal oxygen tension, effects of anesthetics (Leonhardt & others), **26**: 648
effect of carbon dioxide on (review) (Kennedy), **21**: 704
effects of anesthesia with thiopental, nitrous oxide, and neuromuscular blockers on function in man (abstract), **29**: 184
effects of methoxyflurane in surgical patients (abstract), **26**: 257
effects of methoxyflurane on renal blood flow of dog (abstract), **27**: 240
effects of methoxyflurane on renal function (current comment), **25**: 707
function, effects of halothane anesthesia (Deutsch & others), **27**: 793
hemodynamics during peridural anesthesia (Kennedy & others), **31**: 414
hepatic and renal effects of methoxyflurane in dogs (Cale & others), **23**: 248
homotransplantation, anesthetic aspects (Vandam & others), **23**: 783
muscle relaxants and renal excretion (Churchill-Davidson & others), **28**: 540
nephrotoxicity associated with methoxyflurane anesthesia (Crandell & others), **27**: 591
postoperative renal excretion of water in infants (abstract), **21**: 99
renal and cardiovascular effects of halothane (Blackmore & others), **21**: 489
renal complications after anesthesia and operation (review) (Boba & Landmesser), **22**: 781
renal effects of anesthesia and operation mediated by endocrines (review) (Hayes & Goldenberg), **24**: 487
renal failure, *d*-tubocurarine and gallamine in (Churchill-Davidson & others), **28**: 540
renal function during anesthesia and surgery, effect of halothane (Mazze & others), **24**: 279

renal function, effects of cyclopropane on in normal man (Deutsch & others), **28**: 547
renal function, methoxyflurane and (correspondence), **28**: 637
renal function studies during extracorporeal circulation (abstract), **22**: 137
renal hypertension of humoral origin, diagnosis and treatment (review) (Merrill), **24**: 479
transplants, see under Homotransplantation
waterload and histologic appearance of, influence of ganglionic blockade and vasopressor drugs on (abstract), **21**: 91
Kikkawa, Y., see Motoyama, E. K., jt. auth.
Kilmore, M. A., see Chase, H. F., jt. auth.
Kim, K. S., Intravenous set (current comment), **24**: 878
Kim, Y., see Salem, M. R., jt. auth.
King, B. D., see Markello, R., jt. auth.
King, H. K., see Jacobs, R. G., jt. auth.
King, I. J., see Brown, R. C., jt. auth.
Kinney, J. M., Transport of carbon dioxide in blood (review), **21**: 615
Kinyon, G. E., see Sanger, B. A., jt. auth.
Kirby, R. R., Kemmerer, W. T., and Morgan, J. L., Transcutaneous Doppler measurement of blood pressure (clinical workshop), **31**: 86
Kirch, T. J., and De Kornfeld, T. J., An unexpected complication (hyperthermia) while using the Emerson postoperative ventilator (clinical workshop), **28**: 1106
Kirimli, B., see Harris, L. C., jt. auth.
Kirklin, J. W., Intracardiac surgery (editorial), **22**: 485
——, see Theye, R. A., jt. auth.
Kitahata, L. M., The effects of halothane and methoxyflurane on recovery cycles of click-evoked potentials from the auditory cortex of the cat, **29**: 523
——, Taub, A., and Sato, I., Hyperventilation and spinal reflexes, **31**: 321
Kitz, R. J., see Mark, L. C., jt. auth.
——, see Nemazie, A. S., jt. auth.
Koein, R. L., see Graves, C. L., jt. auth.
Klemm, W. R., A square-wave electrical anesthesia current generator (current comment), **25**: 718
——, and O'Leary, T., Comparison of electrical parameters and the quality of electro-anesthesia, **25**: 776
Kliman, A., Presently useful plasma expanders (review), **27**: 417
Klingenmaier, C. H., see Marshall, B. E., jt. auth.
Klonymus, D. H., see Foldes, F. F., jt. auth.
——, see Salanitre, E., jt. auth.
——, see Torda, T. A. G., jt. auth.
Kneale, D. H., see Eckenhoff, J. E., jt. auth.
Knipstein, T. W., see Miller, R. D., jt. auth.
Knott, L. K., see Katz, J. jt. auth.
Knox, P. T., North, W. C., and Stephen, C. R., Methoxyflurane—a clinical evaluation, **23**: 238
——, North, W. C., and Stephen, C. R., Pharmacologic and clinical observations with mepivacaine, **22**: 987
Knutson, R. C., Van Bergen, F. H., Torres, F., Hagfors, N. R., and Bakken, E. E., A method for recording electroencephalograms during electrical anesthesia (current comment), **24**: 728
Ko, K.-C., and Paradise, R. R., The effects of substrates on contractility of rat atria depressed with halothane, **31**: 532
Koelle, G. B., Functional anatomy of synaptic transmission, **29**: 643
Koepke, G., see Walts, L. F., jt. auth.
Koepke, J. A., see Bruce, D. L., jt. auth.
Kohli, M. S., and Manku, R. S., Reinforced endotracheal tube—diversion of air from cuff balloon producing obstruction (current comment), **27**: 413
Koons, R. A., (current comment), **22**: 848
——, Blood warmer (current comment), **25**: 724
——, The use of the Block-Aid Monitor and plastic intravenous cannulas for nerve blocks (clinical workshop), **31**: 290
Kopin, I. J., Biosynthesis and metabolism of catecholamines, **20**: 654
Kopriva, C. J., and Lowenstein, E., An anesthetic accident: cardiovascular collapse from liquid halothane delivery (clinical workshop), **30**: 246
Korkeila, J., How to get the Engström respirator to sigh during anesthesia (clinical workshop), **29**: 148
Kornfeld, D. S., Psychiatric aspects of patient care in the operating suite and special areas (symposium article) **31**: 166
Kosaka, F., see Yokota, T., jt. auth.
Kosaka, Y., Mark, L. C., and Takahashi, T., Thiobarbiturate-succinylcholine-oxygen for uncomplicated cesarean section (abstract), **30**: 344
——, Takahashi, T., and Mark, L. C., Intravenous thiobarbiturate anesthesia for cesarean section. **31**: 489
Kottmeier, C. A., and Gravenstein, J. S., The parasympathomimetic activity of atropine and atropine methylbromide, **29**: 1125
K-Pad
thermometer for (current comment), **27**: 863
Kracke, W. I., see Allison, S. C., jt. auth.
Kraemer, R., see Bamforth, B. J., jt. auth.
——, see Siebecker, K. L., jt. auth.
Kraft, E. D., see Eger, E. I., jt. auth.
Krantz, J. C., Jr., (current comment), **22**: 491
——, (with Ling, A. S. C.), Anesthesia LXII: the effect of hexafluorodiethyl ether and trifluoroethyl vinyl ether on cerebral metabolism, **21**: 518
——, see Ling, A. S. C., jt. auth.
Kranzler, H. N., see Foldes, F. F., jt. auth.
Krasnow, N., and Barbarosh, H., Clinical experiences with beta-adrenergic blocking agents, **29**: 814

KRAYER, O., see ALPER, M. H., jt. auth.
KRETCHMER, H. E., see ALBIN, M. S., jt. auth.
KRISTOFFERSEN, M. B., RATTENBORG, C. C., and HOLADAY, D. A., Asphyxial death: The roles of acute anoxia, hypercarbia and acidosis, **28**: 488
KRNJEVIĆ, K., Chemical transmission and cortical arousal, **28**: 100
KRUMPERMAN, L. W. (with GREISHEIMER, E. M.; RUSSY, B. F., and ELLIS, D. W.), Comparison of effects of phenazocine and meperidine on respiration, **21**: 370
——, see RUSY, B. F., jt. auth.
Krypton
uptake in brain during anesthesia (Alexander & others), **25**: 37; correction, **25**: 581
KUBOTA, YUKIO (with NORTON, M. L.), Experience with cardiac catheterization using halothane-compressed-air anesthesia, **21**: 374
——, SCHWEIZER, H. J., and VANDAM, L. D., Hemodynamic effects of diethyl ether in man, **23**: 306
KULOVICH, M. V., see MOTOYAMA, E. K., jt. auth.
KUNDSIN, R. B., and WALTER, C. W., Asepsis for inhalational therapy (review), **23**: 507
KUROSU, Y., see KEATS, A. S., jt. auth.
KUWABARA, S., and DUNCALF, D., Effect of anatomic shunt on physiologic deadspace-to-tidal-volume ratio—a new equation (clinical workshop), **31**: 575
——, see TORDA, T. A. G., jt. auth.
KVISSELGAARD, N., and MOYA, F., Investigation of placental thresholds to succinylcholine, **22**: 7
——, see MOYA, F., jt. auth.
KYE, H. T., and LOWE, H. J., Quantitative programmed closed-circuit methoxyflurane anesthesia (abstract), **30**: 345
KYPSON, J., see NAHAS, G. G., jt. auth.

L

LAASBERG, L. H., and ETSTEN, B. E., Gas chromatographic analysis of cyclopropane in whole blood (laboratory methods), **26**: 216
——, see HEDLEY-WHYTE, J., jt. auth.
——, see LI, T.-H., jt. auth.
Labor
cerebrospinal fluid pressures during obstetrical anesthesia and (Marx & others), **22**: 348
and delivery, effect on fetus and newborn of pain relief for (review) (James), **21**: 405
effects on newborn, physiologic adjustments at birth (review) (James), **26**: 501
evaluation of three drugs for sedation, hypnosis, amnesia and narcotic potentiation during (abstract), **21**: 114
serum cholinesterase activity during (abstract), **26**: 260; (Shnider), **26**: 335
Laboratories in hospital operating areas, planning of (symposium article), **31**: 176
Labyrinth, effect of droperidol and fentanyl on (Dowdy & Moore), **30**: 604
Lactate
effect on contractility of halothane-depressed atria (Ko & Paradise), **31**: 532
pyruvate, and excess lactate production in anesthetized man (Greene), **22**: 404
Lactate Dehydrogenase
activity and diethyl ether (Greene & Sweet), **24**: 23
LAFARGUE, R. T., see VIRTUE, R. W., jt. auth.
LAM, F. I., see MOSTERT, J. W., jt. auth.
LAMBERTSEN, CHRISTIAN J., Carbon dioxide and respiration in aicd-base homeostasis (Review), **21**: 642
LAMDIN, S., Poem, **30**: 2
LAMONT, A., (current comment), **22**: 324
LAMONT, H., and FAIRLEY, H. F., A pressure-sensitive ventilator alarm (current comment), **26**: 359
LAMOREAUX, L. F., and URBACH, K. F., Incidence and prevention of muscle pain following the administration of succinylcholine, **21**: 394
LAMPERT, F., see NYHAN, W. L., jt. auth.
LANDES, R. R., see LEONHARDT, K. O., jt. auth.
LANDMESSER, C. M., Lumbar puncture technique for spinal anesthesia (correspondence), **31**: 383
——, see BOBA, A., jt. auth.
LANG, S., see SERKS, K. D., jt. auth.
Laparoscopy
blood gas studies during (clinical workshop), **30**: 463
Largon: see Propiomazine
LARKING, E. W., (current comment), **23**: 269
LARSON, A. G., Deliberate hypotension (review), **25**: 682
LARSON, C. P., JR., International Symposium on "CSF and CBF" (report of meeting), **29**: 1234
——, Pulmonary complicance in anesthetized man (editorial), **26**: 708
——, EGER, E. I., II, MUALLEM, M., BUECHEL, D. R., MUNSON, E. S., and EISELE, J. H., The effects of diethyl ether and methoxyflurane on ventilation: II. A comparative study in man, **30**: 174
——, EGER, E. I., II, and SEVERINGHAUS, J. W., Ostwald solubility coefficients for anesthetic gases in various fluids and tissues, **23**: 686
——, EGER, E. I., II, and SEVERINGHAUS, J. W., The solubility of halothane in blood and tissue homogenates, **23**: 349
——, see EGER, E. I., II, jt. auth.
——, see HICKEY, R. F., jt. auth.
——, see MUALLEM, M., jt auth..
——, see MUNSON, E. S., jt. auth.
——, see SEVERINGHAUS, J. W., jt. auth.
Laryngectomy Tube
complications with (current comment), **25**: 249
Laryngoscope: see also under Apparatus and equipment
blade, modification (current comment), **23**: 394
light, how to make work (current comment), **26**: 576
modified blade (current comment), **22**: 846
Laryngoscopy

direct, and tracheal intubation, modified technique for (current comment), **27**: 321
Laryngospasm
treatment by digital elevation of tongue (current comment), **24**: 585
Larynx
cricothyroid membrane puncture with special cannula (clinical workshop), **28**: 943
dilation with Cole tubes (clinical workshop), **31**: 378
laryngeal band: possible relation to prolonged nasotracheal intubation (current comment), **28**: 466
modified cannula (current comment), **27**: 197
obstruction by Holy Communion wafer (clinical workshop), **28**: 784
obstruction due to cricoarytenoid arthritis (current comment), **27**: 518
reflex activity of, during breathing (abstract), **24**: 139
Lasagna, Louis (with DeKornfeld, Thomas J.), A controlled clinical evaluation of two new analgesics, phenazocine and phenampromid, **21**: 159
Lasser, E. C., Elizondo-Martel, G., and Granke, R. C., Potentiation of pentobarbital anesthesia by competitive protein binding, **24**: 665
Lau, R. E., (current comment), **22**: 319
Lauria, J. I., and Andersen, M. N., A minimally traumatic, intermittently inflated endotracheal cuff (clinical workshop), **31**: 578
Lavelée, J.-P., see Carignan, G., jt. auth.
Laver, M. B., and Seifen, A., Measurement of blood oxygen tension in anesthesia (review), **26**: 73
——, and Slater, E. M., Carbon dioxide tensions to determine adequacy of ventilation (correspondence), **27**: 335
——, see Bendixen, H. H., jt. auth.
——, see Egbert, L. D., jt. auth.
——, see Harris, W. H., jt. auth.
——, see Hedley-Whyte, J., jt. auth.
——, see Slater, E. M., jt. auth.
Lavoisier
research on carbon dioxide and its control (Foregger), **23**: 662
Law, S. W., see McMurrey, J. E., jt. auth.
Leake, C. D., Historical aspects of the autonomic nervous system, **29**: 623
——, Life among anesthetists: recollections of forty years, **25**: 428
Leake, D. L., see Slater, E. M., jt. auth.
Lear, E., Suntay, R. Fisch, H. J., Chiron. A. E.- and Pallin, I. M., Ataraxic drugs in pre anesthetic medication. Blind studies in 1,852 patients, **22**: 529
Leavitt, S. J., see Finster, M., jt. auth.
Lebowitz, M., see Walts, L. F., jt. auth.
Lecky, J., see Cohen, P. J., jt. auth.
Ledington, I. M., see McDowall, D. G., jt. auth.
Leduc, C., see Keéri-Szanto, M., jt. auth.
Lee, A. St. J., A fused monitor cable—protection against electrical shock and burns (clinical workshop), **31**: 91
——, see Epstein, R. M., jt. auth.
——, see Matteo, R. S., jt. auth.
——, see Rachow, H., jt. auth.
Lee, J., see Cotev, S., jt. auth.
Lee, S., Exhalation tunnel for nonrebreathing techniques (current comment), **25**: 716
——, A modified nonrebreathing system (current comment), **25**: 238
——, A new pop-off valve (current comment), **25**: 240
Lefemine, A. A., Cardiac pacemakers (review), **27**: 843; (correspondence), **28**: 790
Leffingwell, F. E., (current comment), **23**: 719
——, Hallmarks of maturity (editorial), **22**: 830
Leibman, K. C., On the metabolism of trichloroethylene (correspondence), **29**: 1066
Leiby, G., see de Lemos, R., jt. auth.
Leigh, J. M., Tyrrell, M. F., and Strickland, D. A. P., Simplified versions of the shunt and oxygen consumption equations (clinical workshop), **30**: 468
Lenartz, H. F., see Winters, W. D., jt. auth.
Leonhardt, K. O., Synoptic interpretation of continuous ECG and EEG in anesthetic emergencies, **22**: 918
——, Landes, R. R., and McCauley, R. T., Anatomy and physiology of intrarenal oxygen tension: preliminary study of the effects of anesthetics (progress in renal investigation), **26**: 648
Le Tard, F., and Belleau, C. D., (current comment), **23**: 267
Levallorphan
effect on increased intracranial pressure (Weitzner & others), **24**: 291
Levine, D. A., see Cohen, E. N., jt. auth.
LeVine, D. S., see Virtue, R. W., jt. auth.
Levison, H., see Swyer, P. R., jt. auth.
Levomepromazine (Nozinan)
antisialogogue effect of (Dobkin & Palko), **21**: 260
Levoprome: see Methotrimeprazine
Levy, A. A., see Dobkin, A. B., jt. auth.
Levy, J. V., Ichiyanagi, K., and Frederickson, E. L., Effect of cyclopropane on myocardial contraction and membrane potentials, **24**: 185; (current comment), **24**: 256
Lewinski, A., Evaluation of methods employed in the treatment of the chemical peneumonitis of aspiration, **26**: 37
Lewis, G. M., (current comment), **22**: 324, 852
Lewis, G., see Lorhan, P. H., jt auth.
Lewis, J. J., and Hicks, R. G., Malfunction of vaporizers (current comment), **27**: 324
Li, T.-H., Adrenal venous catecholamines during methoxyflurane anesthesia (correspondence), **30**: 475
——, and Etsten, B., Does respiratory acidosis cause "cyclopropane hypertension"? **22**: 49

——, Gamble, C., and Etsten, B., Stellate ganglionic transmission and myocardial contractile force during halothane anesthesia, **29**: 444
——, Laasberg, L. H., and Etsten, B. E., Effects of anesthetics on myocardial catecholamines, **25**: 641
——, Rheinlander, Harold F., and Etsten, Benjamin, Circulatory changes due to open pneumothorax in surgical patients, **21**: 171
——, Shaul, M. S., and Etsten, B. E., Decreased adrenal venous catecholamine concentrations during methoxyflurane anesthesia, **29**: 1145
——, Shimosato, S., and Etsten, B. E., Methoxamine and cardiac output in nonanesthetized man and during spinal anesthesia, **26**: 21
——, Shimosato, S., Gamble, C. A., and Etsten, B. E. Hemodynamics of mephentermine during spinal anesthesia in man, **24**: 817
——, see Ovadia, L. O., jt. auth.
Lidocaine (Xylocaine)
action in central nervous system (editorial) (Munson & Wagman), **30**: 3
allergic reaction (clinical workshop), **31**: 380
cardiovascular and renal hemodynamic effects (Kennedy & others), **31**: 414
^{14}C-labeled, distribution of when injected intravenously in the rat (Katz), **29**: 249
^{14}C-labeled, uptake, distribution and elimination in the dog (abstract), **29**: 200
compared with mepivacaine for obstetrical anesthesia (Gunther & Bauman), **31**: 5
determination in whole blood by gas chromatography (Keenaghan), **29**: 110
distribution and site of action of extradural analgesic drugs using C^{14} labelled (abstract), **25**: 91
effect of, on central nervous system (abstract), **21**: 89
effects on central nervous system (Wagman), **28**: 155
effects on digitalis intoxication (abstract), **28**: 272
effects on synaptic transmission (de Jong & others), **30**: 19
evaluation in peridural anesthesia (Crawford), **25**: 321
interaction with pentobarbital, effects on toxicity in mice and guinea pig atria (Richards & others), **29**: 493
intravenous, as adjuvant to general anesthesia (abstract), **21**: 112
intravenous, as suppressant of cough reflex (Steinhaus & Gaskin), **24**: 285
kinetics of transfer across human placenta (Shnider & Way), **29**: 944
nerve impulse conduction during intravenous injection (de Jong & Nace), **29**: 22
neurologic complications following spinal anesthesia with (Phillips & others), **30**: 284
passage across placenta (abstract), **28**: 246
plasma concentrations after caudal, lumbar epidural, axillary block, and intravenous regional anesthesia (Mazze & Dunbar), **27**: 574
plasma levels in mother and newborn following obstetrical conduction anesthesia (Shnider & Way), **29**: 951
Lidwina, M., see Ploss, R. E., jt. auth.
Light, F. B., and Marx, G. F., The value of gastric aspiration in a comatose child (clinical workshop), **31**: 478
Lillington, G. A., see Davidson, J. T., jt. auth.
Lim, H. S., Davenport, H. T., and Robson, J. G., The response of infants and children to muscle relaxants, **25**: 161
——, see Graff, T. D., jt. auth.
Lim, R. K. S., Pain mechanisms, **28**: 106
Lin, R. C., see Peng, T. C., jt. auth.
Lincoln, J. R., and Sawyer, H. P., Jr., Complications related to body positions during surgical procedures (review), **22**: 800
——, see Cheney, F. W., Jr., jt. auth.
Linde, H. W., Ethylene oxide sterilization (correspondence), **27**: 703
——, and Bruce, D. L., Occupational exposure of anesthetists to halothane, nitrous oxide and radiation, **30**: 363
——, and Butler, R. A., Residue in halothane vaporizer (current comment), **24**: 887
——, (with Jones, R. E., and others), Cyclopropane anesthesia. III. Effects of cyclopropane on respiration and circulation in normal man, **21**: 380
——, see Bruce, D. L., jt. auth.
——, see Butler, R. A., jt. auth.
——, see Deutsch, S., jt. auth.
——, see Jones, R. E., jt. auth.
——, see Morse, H. T., jt. auth.
——, see Price, H. L., jt. auth.
——, see Sechzer, P. H., jt. auth.
——, see Williams, C. H., jt. auth.
Lindenbaum, J., see Blackburn, W. R., jt. auth.
Lindsley, O. R., Hobika, J. H., and Etsten, B. E., Operant behavior during anesthesia recovery: a continuous and objective method, **22**: 937
Ling, A. S. C., Bell, F. K., and Krantz, J. C., Jr., Anesthesia LXII: the effect of hexafluorodiethyl ether on brain cholinesterase activity, **22**: 426
——, and Krantz, John C., Jr., Anesthesia LXII: the effect of hexafluorodiethyl ether and trifluoroethyl vinyl ether on cerebral metabolism, **21**: 518
Linker, R. P., see Bagwell, E. E., jt. auth.
Linton, C. D., Sweating and anesthesia. A consideration of causes and effects, **22**: 56
Lionetti, F. J., see Tullis, J. L., jt. auth.
Lipid theory of anesthesia (Eger & others), **30**: 129
Lippmann, M., see Budris, A. V., jt. auth.
Lipsey, Robert (with Blackmore, William P.; Erwin, Karl W., and Wiegand, Oscar F.), Renal and cardiovascular effects of halothane, **21**: 489

List, W. F., and Gravenstein, J. S., Effects of atropine and scopolamine on the cardiovascular system in man. 2. Secondary bradycardia after scopolamine, **26**: 299
Litke, R. A., see Merrill, I. R., jt. auth.
Little, B., Water and electrolyte balance during pregancy (review), **26**: 400
Little, D. M., Academy of Anesthesiology (report of meeting), **29**: 393
——, Ralph Moore Tovell (obituary), **28**: 307
——, and Wetstone, H. J., Anesthesia and the liver (review), **25**: 815
Little, J. B., Radford, E. P., Jr., Effects of ionizing radiation and their importance in anesthesiology, **25**: 479
Litwiller, R. W., Succinylcholine hydrolysis: a review (medical intelligence), **31**: 356
Liu, P., see Amaha, K., jt. auth.
Liu, W. C., Life expectancy among anesthesiologists (correspondence), **31**: 197
Liver: see also under Viscera
and anesthesia (review) (Little & Wetstone), **25**: 815
cells (human) *in vitro*, effects of chloroform, halothane and methoxyflurane on (Corssen & others), **27**: 155
effect of adrenergic blocking agents on hepatic toxicity of halothane in mice (abstract), **25**: 111
effects of halothane on, in protein-deficient mice (abstract), **22**: 131
effects of methoxyflurane in dogs (abstract), **22**: 138
effects of methoxyflurane in surgical patients (abstract), **26**: 257
effects of vasopressors on rate of blood flow through, measured with P-32 (abstract), **22**: 127
electron micromorphologic response to halogenated anesthetics (dog) (abstract), **27**: 214
enzymes, effect of anesthesia upon, reflecting cellular damage (abstract), **26**: 258
failure (hepatic) after halothane (case report) (current comment), **25**: 868
function and halothane (abstract), **25**: 103
function, effect of methohexital (Bittrich & others), **24**: 81
function following anesthesia with halogenated agents (abstract), **21**: 109
function following trichlorethylene anesthesia (abstract), **25**: 105
halothane and hepatic necrosis (editorial), **24**: 109; (current comment), **24**: 593; 743
halothane and hepatic venous oxygen saturation (abstract), **26**: 246
halothane anesthesia as possible cause of massive hepatic necrosis (Brody & Sweet), **24**: 29
halothane-2 ^{14}C accumulation in (Cohen), **31**: 560
hepatic and renal effects of methoxyflurane in dogs (Cale & others), **23**: 248
morphologic changes in hepatic necrosis following halothane anesthesia (Blackburn & others), **25**: 270
rat, effect of halothane on oxygen consumption of (Hoech & others), **27**: 770
Livingston, M., (current comment), **23**: 585
——, and Durrell, R., Epiglottic elevator (current comment), **28**: 214
Llamas, R., Gupta, S. K., and Baum, G. L., A simple technique for prolonged arterial cannulation (clinical workshop), **31**: 289
Local Anesthetics: see Anesthesia, local; under names of specific agents and compounds and procedures
Loehning, R. W., Davis, G., and Safar, P., Rebreathing with "nonrebreathing" valves (current comment), **25**: 854
——, Ueda, Issaku, and Czorny, Vasil P., Effect of phenylephrine on survival and acid-base balance in dogs with acute hemorrhagic hypotension, **21**: 363
——, see Ueda, I., jt. auth.
London, S. B., see Steinberg, B. L., jt. auth.
Long, G., and Bachman, L., Neuromuscular blockade by *d*-tubocurarine in children, **28**: 723
——, Dripps, R. D., and Price, H. L., Measurement of anti-arrhythmic potency of drugs in man: effects of dihydrobenzperidol, **28**: 318
Long, G. J., see Crul, J. F., jt. auth.
Long, J. P. (with Borgman, R. L.; Walker, T R.; and Pittinger, C. B.), Effects of barbiturates on skeletal muscle function, **21**: 150
——, see Marshall, F. N., jt. auth.
Lopez, L., see Daos, F. G., jt. auth.
Lord, C. O., Katz, R. L., and Eakins, K. E., Antiarrhythmic properties of stereoisomers of a beta-adrenergic blocking agent (H 56/28), **29**: 288
——, see Katz, R. L., jt. auth.
Lorhan, P. H., (current comment), **22**: 849
——, and Burch, J., Anesthesia for a Jehovah's Witness with a low hematocrit (clinical workshop), **29**: 847
——, Lewis, G., Bearden, C. R., and Averbook, B. D., Postoperative parotitis, **23**: 659
——, see Budris, A. V., jt. auth.
——, see McNally, G. F., jt. auth.
Loughnane, M. H., see Rusy, B. F., jt. auth.
Lovejoy, F. W., Jr., and Morrow, P. E., Aerosols, bronchodilators and mucolytic agents (review), **23**: 460
Lovell, E. S., Aid during tonsillectomy (current comment), **27**: 694
Lovis, J. D., see Nunn, J. F., jt. auth.
Lowe, H. J., Flame ionization detection of volatile organic anesthetics in blood, gases and tissues, **25**: 808
——, Preservation of volatile anesthetics in blood and tissue (current comment), **25**: 566
——, Feingold, A., and Hagler, K. J., Unusual cardiovascular stability during deep halothane anesthesia (clinical workshop), **30**: 471

XUM

——, see Hill, D. W., jt. auth.
——, see Kye, H. T., jt. auth.
——, see Titel, J. H., jt auth.
Lowenstein, E., Use of succinylcholine in burned patients (current comment), **27**: 494; (correspondence), **28**: 234
——, see Kopriva, C. J., jt. auth.
Low-temperature autoradiography: see Autoradiography
Lozano, E., see Hall, K., jt. auth.
LSD-25: see under Lysergic acid diethylamide
Lubkan, C. P., see Strong, M. J., jt. auth.
Lubricants
and two analgesics used with endotracheal tubes, effects on postoperative sore throats (current comment), **26**: 681
Luciferin
bioluminescence (firefly), effects of diethyl ether and halothane on (Ueda), **26**: 603
Luer-Lok
adaptor, improved ECG (current comment), **24**: 588
Lugo, J. E., see Rowe, G. G., jt. auth.
Luhn, N. R., see Jenkins, M. T., jt. auth.
Lumbar puncture technique (correspondence) (Landmesser), **31**: 383
Lumbosacral Fusion
blindness after (current comment), **21**: 777
Lund, L. O., Beckwitt, H. J., Grover, R. F., and Virtue, R. W., Effect of hyperventilation, hypothermia and urea on circulation and cerebrospinal fluid pressure in the dog (2), **26**: 45
——, and Daos, F. G., Effects on postoperative sore throats of two analgesic agents and lubricants used with endotracheal tubes (current comment), **26**: 681
——, see Virtue, R. W., jt. auth.
——, see Young, R. V., jt. auth.
Lund, P. C., and Cwik, J. C., Propitocaine (Citanest) and methemoglobinemia (current comment), **26**: 569
Lundberg, A., see Zucker, M. B., jt. auth.
Lundborg, P. O., see Moffitt, E. A., jt. auth.
Lundgren, C., see Eger, E. I., II, jt. auth.
Lungs: see also Airway; Atelectasis; Blood gas exchange; Bronchiolitis; Respiration
acute chemical injury of, experience with six cases (Conner & others), **23**: 538
airway resistance, effects of ultrasonically-produced aerosols on (Cheney & Butler), **29**: 1099
airways, effects of scopolamine on (Smith & DuBois), **30**: 12
alveolar-arterial oxygen tension difference in anesthetized man (Bergman), **28**: 517
anesthesia, effect (Bergman), **30**: 378
artificial heart-lung: see Oxygenator
atelectasis and shunting (editorial), **25**: 595
atelectasis, evaluation of rebreathing tube for preventing (current comment), **28**: 211
atelectasis in anesthesia (Colgan & Whang), **29**: 917
atelectasis in anesthesia (editorial) (Finley), **29**: 863
atelectasis, pneumothorax, and aspiration as postoperative complications (review) (Hamilton), **22**: 708
atelectasis, pneumothorax: effect on lung function and shunting (Colgan & others), **29**: 923
atelectasis, postoperative, relation to absence of nitrogen in patients with pulmonary disease (abstract), **28**: 269
blood flow after cardiac resuscitation (Suwa & others), **30**: 37
cardiopulmonary resuscitation, laboratory evaluation (abstract), **24**: 132
cardiopulmonary resuscitation, ventilation-cardiac compression rates and ratios in (Harris & others), **28**: 806
changes in airway resistance following intravenous *d*-tubocurarine (Westgate & others), **23**: 65
chest compression, effects of on performance of ventilators (Amaha & others), **28**: 498
circulation, effect of various concentrations of oxygen on (abstract), **21**: 96
circulation in, evaluation (editorial) (Smith & Hoffman), **30**: 589
compliance (clinical workshop), **30**: 663
compliance at increased ambient pressure (current comment), **27**: 196
compliance during anesthesia (Gold & Helrich), **26**: 281
compliance in anesthetized man (editorial) (Larson), **26**: 708
compliance, in human during prolonged positive pressure ventilation (abstract), **28**: 257
compliance, influence of anesthetics on (abstract), **26**: 242
compliance of rabbit and posturally induced changes in functional residual capacity (Davidson & others), **27**: 817
complication of cystic fibrosis, radical approach to therapy for (abstract), **26**: 248
denervation, effect on pulmonary embolism (abstract), **27**: 222
dynamic compliance in anesthetized man (abstract), **25**: 97
edema in lung injury from oxygen in lambs (de Lemos & others), **30**: 609
effect of chronic exposure to ultrasonic aerosols (Modell & others), **28**: 680
effect of cordotomy, percutaneous cervical, on (Tenicela & others), **29**: 7
effect of halothane on human airway mechanics (Patterson & others), **29**: 900
effect of uneven pulmonary distribution of blood and gas on induction with inhalation anesthetics (Eger & Severinghaus), **25**: 620
effects of surgical pneumothorax on pulmonary ventilation (Bonica & others), **22**: 955
elimination of carbon dioxide by (review) (Nunn), **21**: 620
function after scopolamine with secobarbital and with fentanyl (Stephen & others), **31**: 237

hemodynamics during general anesthesia in man (Price & others), **30**: 629
Hering-Breuer reflex during anesthesia (editorial) (Ngai), **29**: 408
Hering-Breuer reflex during anesthesia, failure to account for tachypnea (Paskin & others), **29**: 550
impedance in anesthesiology (clinical workshop), **30**: 663
interdependence of structure and function (review) (Staub), **24**: 831
lavage, hemodynamic and respiratory changes during (abstract), **30**: 352
massive pulmonary embolism (current comment), **24**: 590
match test as aid to preoperative pulmonary evaluation (current comment), **25**: 391
mechanics and blood gas tensions during anesthesia in asthmatics (abstract), **27**: 216
mechanics and physiologic shunt during spontaneous breathing (Fletcher & Barber), **27**: 638
narcotics and postoperative function (abstract), **26**: 258
performance during inhalation anesthesia (Colgan), **26**: 778
properties of extracts, effect of positive pressure ventilation on (Greenfield & others), **25**: 312
pulmonary effect of prolonged constant volume ventilation (abstract), **25**: 100
pulmonary function and tests for ventilatory adequacy (review) (Mitchell), **23**: 422
pulmonary function during spinal anesthesia, mechanism of cough depression (Egbert & others), **22**: 882
pulmonary function, effect of preanesthetic drugs on in man (Smith & others), **28**: 883
pulmonary function in normal infant (editorial), **25**: 593
pulmonary gas exchange (divinyl ether) in man (Salanitre & others), **28**: 535
pulmonary oxygen toxicity in dogs under controlled ventilation (abstract), **27**: 210
pulmonary surfactant and atelectasis (Sutnick & Soloff), **25**: 676
pulmonary surfactant in lung extracts of patients receiving diethyl ether or halothane (clinical workshop), **28**: 1089
pulmonary toxicity of oxygen (medical intelligence) (Morgan), **29**: 570
relation of postoperative atelectasis to solubility of gas filling lungs at termination of anesthesia (Stevens & others), **27**: 163
single, pressure-volume relationships (Gliedman & others), **23**: 41
surfactant, effects of wetting and antifoaming agents on (Modell & others), **30**: 164
surfactant in lung injury from oxygen in lambs (de Lemos & others), **30**: 609
surfactant, interactions with anesthetic agents (abstract), **30**: 354
toxicity of oxygen (editorial) (Morgan), **30**: 587
variations in volume and alveolar gas composition, effect on rate of fall of oxygen saturation during apnea (abstract), **22**: 128
venous admixture with halothane-oxygen anesthesia (abstract), **30**: 345
ventilators, automatic (review) (Holaday & Rattenborg), **23**: 493
LUNN, J. N., see FOLDES, F. F., jt. auth.
LURIE, A. A., Anesthesia and the systemic venous circulation (review), **24**: 368
Lymphatic Duct
right, perforation with stellate ganglion block (case report) (current comment), **22**: 849
LYNAS, R. F. A., A suspected allergic reaction to lidocaine (clinical workshop), **31**: 380
Lysergic acid diethylamide, anesthetic considerations in patients on (letter to editor, clinical workshop), **29**: 384

M

MAAS, L. P., see COHEN, D. D., jt. auth.
MAC
see Anesthesia, anesthetic index
MCALEAVY, J. C., WAY, W. L., ALTSTATT, A. H., GUADAGNI, N. P., and SEVERINGHAUS, J. W., The effect of P_{CO_2} on the depth of anesthesia, **22**: 260
MCASLAN, T. C., see HELRICH, M., jt. auth.
MCCABE, J. R., see SMITH, R. H., jt. auth.
MCCAMMOND, J. M., see ECKSTEIN, J. W., jt. auth.
MACCARTY, C. S., see ALBIN, M. S., jt. auth.
——, see MICHENFELDER, J. D., jt. auth.
MCCAUGHEY, T. J., Use of succinylcholine in burned patients (correspondence), **28**: 234
MCCAULEY, R. T., see LEONHARDT, K. O., jt. auth.
MCCOLLOUGH, B. (with ZUHDI, N.; CAREY, J., and GREER, A.), The use of citrated banked blood for open-heart surgery, **21**: 496
MCCORD, W. M., see GADSDEN, R. H., jt. auth.
MCCOY, see WEITZNER, S. W., jt. auth.
MCCUNE, F. K., (current comment), **22**: 637
MACDONALD, A., see CRANDELL, W. B., jt. auth.
MCDONALD, J. S., see HAMILTON, W. K., jt. auth.
MCDOWALL, D. G., Halothane and cerebral circulation (current comment), **25**: 874
——, LEDINGHAM, I. M., JACOBSON, I., and NORMAN, J. N., Oxygen administration by mask in a pressure chamber, **26**: 720
MCGOON, D. C., see MOFFITT, E. A., jt. auth.
MCGOVERN, J. J., see VANDERVEEN, J. L., jt. auth.
MCGREGOR, M., see DAVENPORT, H. T., jt. auth.
MACHADO, R. A., see RUSY, B. F., jt. auth.
MCKNIGHT, R. L., see SUGIOKA, K., jt. auth.
MACKRELL, T. N., and SCHWARTZ, M., Effects of volatile anesthetics on nonexcitable tissue (abstract), **30**: 345
——, see THOMAS, D. M., jt. auth.
MCLAUGHLIN, C. R., Hypotensive anesthesia: a surgeon's view (editorial), **27**: 239
MCLAUGHLIN, D. F., and PADGET, W. R., Unusual cause for respiratory obstruction (current comment), **25**: 402

XUM

——, see Brown, R. C., jt. auth.
McMurrey, J. D., and Law, S. W., Postoperative changes in electrolyte balance (review), **22**: 819
McNall, P. G., see Foldes, F. F., jt. auth.
McNally, G. F., and Lorhan, P. H., Acute epiglottitis managed with nebulized epinephrine delivered by IPPB (clinical workshop), **31**: 581
McNight, R., see Davis, D. A., jt. auth.
Maes, R., Kananen, G., and Sunshine, I., Determination of mepivacaine in blood and urine (laboratory methods), **30**: 657
Magill, I., The heritages of the past are the privileges of the future (Ralph M. Waters Award Lecture), **28**: 202
Mahaffey, J. E., Aldinger, E. E., Sprouse, J. H., Darby, T. D., and Thrower, W. B., The cardiovascular effects of halothane, **22**: 982
——, (with Hamelberg, W.; Sprouse, J. H., and Richardson, J. A.), Catechol amine levels during light and deep anesthesia, **21**: 297
——, and Witherspoon, S. M., An unusual complication following venous cutdown (current comment), **27**: 198
——, see Stewart, D. M., jt. auth.
Mahler, D. L., Elementary statistics for the anesthesiologist (special article), **28**: 749
Mahoney, P. D., see Colgan, F. J., jt. auth.
Malia, E. R., Self-powered atomizer (clinical workshop), **28**: 625
Maling, H. M., see Goldberg, A. H., jt. auth.
Malm, J. R., see Patterson, R. W., jt. auth.
Malpractice
  action, causes of (legal intelligence) (Wasmuth), **26**: 659
  suits, physician and (editorial), **22**: 1007
Malt, R. A., and Mullinax, P. F., Jr., (current comment), **23**: 132
Mandibular prognathism, nasal intubation in (clinical workshop), **29**: 1059
Manheim, A., see Smith, R. M., Jr., jt. auth.
Manku, R. S., see Kohli, M. S., jt. auth.
Mann, P. E. G., see Cooperman, L. H., jt. auth.
Mannheimer, W. H. (with Fromberg, H. Fielding, and Keats, A. S.), Succinyldicholine esterase activity in stored citrated blood, **21**: 64
Mannitol
  effects of intracranial hypertension of hypercapnic acidosis (abstract), **22**: 134
Manometer
  inexpensive venous pressure (current comment), **25**: 726
  multipurpose holder (current comment), **24**: 397
Manthey, F. A., Intravenous regional anesthesia of the upper extremity (current comment), **26**: 827
Mapleson, W. W., and Waters, D. J., Time constants in Anesthesiology (correspondence), **28**: 635
Marble, A., and Steinke, J., Physiology and pharmacology in diabetes mellitus: guiding the diabetic patient through the surgical period (review), **24**: 442
Marcus, P. S., Inspiratory force measurement (correspondence), **28**: 235
——, Boyd, T. F., Goldsmith, H. H., and Ruscio, J. F., Bleeding volume variations. 1. Comparison of effects of halothane, ether and thiopental in normal dogs, **23**: 671
——, Pope, F. S., and Rosenkaimer, S., A method for assessing postoperative ventilatory sufficiency (current comment), **27**: 321
Margolies, L., see Moya, F., jt. auth.
Margules, R., see Walts, L. F., jt. auth.
Marin, J., see Slass, H., jt. auth.
Mark, L. C., Analeptics: outmoded therapy of barbiturate poisoning (editorial), **23**: 713
——, On species differences. 2. Computers (editorial), **27**: 113
——, Scientific functions of editorial commentary: A dissent (correspondence), **29**: 851
——, Treatment of laryngospasm by digital elevation of tongue (current comment), **24**: 585
——, What's right with anesthesiology (correspondence), **27**: 333
——, Kitz, R. J., and Brand, L., No mischievous witchcraft. Anesthesiology in 1967, bicentennial year of the College of Physicians and Surgeons, **28**: 296
——, Perel, J. M., Brand, L., and Dayton, P. G., Distribution and metabolism of thiohexital (correspondence), **31**: 384
——, Perel, J. M., Brand, L., and Dayton, P. G., Studies with thiohexital, an anesthetic barbiturate metabolized in man, **29**: 1159
——, see Brand, L., jt. auth.
——, see Kosaka, Y., jt. auth.
Mark, V. H., see Folkman, J., jt. auth.
Markee, S., Wang, H. H., and Wang, S. C., Effects of cyclopropane on the central vasomotor mechanism of the dog, **28**: 742
——, see Wang, H., jt. auth.
Markello, R., Carbon dioxide tensions to determine adequacy of ventilation (correspondence), **27**: 334
——, Cutter, J. A., and King B. D., Hyperventilation studies during nitrous oxide-narcotic-relaxant anesthesia, **24**: 225
——, and King, B. D., Effect of propiomazine on respiration and circulation, **27**: 29
Marrese, R. A., A safe method for discharging anesthetic gases (clinical workshop), **31**: 371
Marshall, B. E., Cohen, P. J., Aukberg, S., and Klingenmaier, C. H., Pulmonary venous admixture before, during and after halothane–oxygen anesthesia with spontaneous respiration (abstract), **30**: 345
——, see, Cohen, P. J., jt. auth.
Marshall, F. N., Pittinger, C. B., and Long, J. P., Effects of halothane on gastrointestinal motility, **22**: 363

MARSHALL, J., Self-lubricated stylet for endotracheal tubes (letter to editor, clinical workshop), **29**: 385
MARTIN, C. B., JR., Uterine blood flow and placental circulation (review), **26**: 447
MARTIN, R. G., Adaptation of "DePuy" abduction bar and clamp (current comment), **24**: 117
MARTIN, S. J., Aid to our Far East confreres (editorial), **23**: 875
——, Sudden cardiac collapse (review), **22**: 738
——, The anesthesiologist and the use and care of laboratory animals (editorial), **22**: 832
——, Tissue oxygen tension: one step closer (editorial), **21**: 432
——, MURPHY, J. D., COLLITON, R. J., and ZEFFIRO, R. G., Clinical studies with Innovar (current comment), **28**: 458
MARTIN, W. E., FREUND, F. G., HORNBEIN, T. F., and BONICA, J. J., Cardiovascular effects of halothane and halothane–nitrous oxide anesthesia during controlled ventilation (abstract), **30**: 346
——, see FREUND, F. G., jt. auth.
——, see HORNBEIN, T. F., jt. auth.
——, see KENNEDY, W. F., JR., jt. auth.
——, see MORGAN, B. C., jt. auth.
MARTINEZ, L., see FOSTER, P. A., jt. auth.
MARX, G. F., Fetal arrhythmia during caudal block with prilocaine (current comment), **29**: 222
——, Placental transfer and drugs used in anesthesia (review), **22**: 294
——, Re: malignant hyperthermia (correspondence), **31**: 585
——, Shock in the obstetric patient (review), **26**: 423
——, and ORKIN, L. R., Cerebrospinal fluid proteins and spinal anesthesia in obstetrics, **26**: 340
——, and ORKIN, L. R., Complications associated with transurethral surgery, **23**: 802
——, and ORKIN, L. R., Preoperative bradycardia (current comment), **26**: 686
——, and ORKIN, L. R., Use of the Columbia pediatric circle valve for respiratory studies in the neonate (clinical workshop), **30**: 330
——, SAIFER, A., and ORKIN, L. R., Cerebrospinal fluid cells and proteins following spinal anesthesia, **24**: 305
——, ZEMAITIS, M. T., and ORKIN, L. R., Cerebrospinal fluid pressures during labor and obstetrical anesthesia, **22**: 348
——, see COSMI, E. V., jt. auth.
——, see JAMES, O. C., jt. auth.
——, see LIGHT, F. B., jt. auth.
——, see WOLLMAN, S. B., jt. auth.
Masks: see also under Apparatus and Instruments; Oxygen breathing, respiratory water loss via anesthesia systems (Chase & others), **22**: 205
buccal (current comment), **25**: 399
infant, for collection of respiratory samples (current comment), **23**: 876
new (current comment), **26**: 111
oxygen administration by, in pressure chamber (McDowall & others), **26**: 720
permeability of open drop (current comment), **25**: 711
MASON, D. T., The autonomic nervous system and regulation of cardiovascular performance, **29**: 670
——, and BARTTER, F. C., Autonomic regulation of blood volume, **29**: 681
MASSA, L. S., and ZAUDER, H. L., Calibration of a new vaporizer (current comment), **25**: 708
Match Test
as aid to preoperative pulmonary evaluation (current comment), **25**: 391
Maternity: see under Delivery; Labor; Pregnancy; Puerperium
Mathematics: see Time Constants
MATSUZAKI, T., see FOLDES, F. F., jt. auth.
MATTEO, R. S., GISSEN, A., and LEE, A. ST. J., Safety in the use of nitrous oxide: a modification of the standard anesthetic machine to eliminate sources of human error and system failure (technical notes), **31**: 361
——, HOECH, G. P., JR., and HOSKIN, F. C. G., The effects of cyclopropane and diethyl ether on tissue oxygen consumption and anaerobic glycolysis of brain *in vitro*, **30**: 156
——, KATZ, R. L., and PAPPER, E. M., The injection of epinephrine during general anesthesia with halogenated hydrocarbons and cyclopropane in man, **23**: 360; 3. Cyclopropane, **24**: 327
——, and RAVIN, M. B., The osmotic fragility of human red cells caused by urea administration during hypothermia (current comment), **27**: 318
——, see HOECH, G. P., JR., jt. auth.
——, see KATZ, R. L., jt. auth.
MATTHEWS, J. H., see TANASICHUK, M. A., jt. auth.
MATTICK, J. W., (current comment), **22**: 495
MATZ, G. J., RATTENBORG, C. G., and HOLADAY, D., Effects of nitrous oxide on middle ear pressure (clinical workshop), **28**: 948
Maxillary Nerve: see under Nerves
MAYFIELD, J. R., (with POE, M. F.), Clinical experience with chloroform anesthesia, **21**: 508
MAZZE, R. I., and DUNBAR, R. W., Plasma lidocaine concentrations after caudal, lumbar, epidural, axillary block, and intravenous regional anesthesia, **27**: 574
——, ESCUE, H. M., and HOUSTON, J. B., Hyperkalemia and cardiovascular collapse following administration of succinylcholine to the traumatized patient, **31**: 540
——, SCHWARTZ, F. D., SLOCUM, H. C., and BARRY, K. G., Renal function during anesthesia and surgery. 1. The effects of halothane anesthesia, **24**: 279
MAZZIA, V. D. B., see HERSHEY, S. G., jt. auth.
——, see IMPARATO, A. M., jt. auth.
——, see WALD, A., jt. auth.

XUM

Measurement, scientific, methods and units (editorial) (Smith), **30**: 125
MÉCS, I., see SELYE, H., jt. auth.
Medical Journals
share your, **23**: 765
Medical Literature
palliative approach to newgrowth of knowledge (editorial), **23**: 576
Medical Practice: see under Anesthesiology
Medical Students
one method of teaching anesthesia to (Smith & Cullen), **24**: 68; (current comment), **24**: 592
Medicine
technology, and man (editorial) (Bartholomay), **27**: 1
use of dextrans in (review) (Atik), **27**: 425
Medicolegal: see Malpractice
Megimide: see Bemegride
MELLIN, G. W., Comparative teratology (editorial), **29**: 1
MELMAN, E., see ALEXANDER, S. C., jt. auth.
——, see WOLLMAN, H., jt. auth.
MELMON, K. L., see THOMSON, P. D., jt. auth.
MELZACK, R., Evolution of pain theories (editorial), **31**: 203
Mendelson's syndrome: see under Acid pulmonary aspiration syndrome
MENDENHALL, M. K., (current comment), **22**: 637
——, see PETTY, W. C., jt. auth.
Mental functions, human, effects of cyclopropane on (James), **30**: 264
Meperidine (Demerol): see also Preanesthetic Medication
comparison of analgesic and side effects with parenteral *d*-propoxyphene (Stoelting & others), **23**: 21
comparison of effects on respiration with meperidine (Greisheimer & others), **21**: 370
comparison of various drug combinations as pediatric preanesthetic medication (Eger & others), **22**: 962
effect on pain threshold, phenothiazine derivatives alone or combined with (earlobe algesimeter) (current comment), **27**: 497
pituitary blockade by (Han & Brown), **22**: 909
potentiation by promethazine (Keats & others), **22**: 34
and propiomazine for preanesthetic medication (current comment), **22**: 1013
rate of appearance and disappearance in fetal blood after administration to mother (abstract), **27**: 227
respiratory depression associated with relief of pain by (Keats & Girgis), **29**: 1006
Mephentermine (Wyamine)
and cyclopropane-epinerphrine arrhythmias in dogs (Elliott), **23**: 762
effect upon venous circulation during spinal anesthesia (abstract), **25**: 90
hemodynamics of, during spinal anesthesia (Li & others), **24**: 817
Mepivacaine (Carbocaine)
accumulation during caudal block (clinical workshop), **29**: 585
clinical observations on intrathecal use of (Poe & others), **23**: 678
compared with lidocaine for obstetrical anesthesia (Gunther & Bauman), **31**: 5
determination in blood and urine (laboratory methods) (Maes and others), **30**: 657
distribution and site of action of extradural analgesic drugs using C^{14} labelled (abstract), **25**: 91
estimation of in biological fluids (Daniel & Morishima), **28**: 924
evaluation in peridural anesthesia (Crawford), **25**: 321
evaluation of (abstract), **22**: 150
gas chromatographic determination in blood (Pratt & others), **28**: 432
in capillary blood, determination by gas chromatography (laboratory methods (Asling & others), **31**: 458
pharmacologic and clinical observations (Knox & others), **22**: 987
placental clearance following administration to the guinea pig fetus (Morishima & Adamsons), **28**: 343
transmission across the human placenta (Morishima & others), **27**: 147
MERIN, R. G., Myocardial metabolism and hemodynamics in the halothane-depressed canine heart (abstract), **30**: 346
——, Myocardial metabolism in the halothane-depressed canine heart, **31**: 20
MERKEL, G., and EGER, E. I., II, A comparative study of halothane and halopropane anesthesia. Including method for determining equipotency, **24**: 346
——, see EGER, E. I. II, jt. auth.
MERRICK, H. C., see MUNSON, E. S., jt. auth.
MERRILL, I. R., and LITKE, R. A., Television in the operating suite and special areas (symposium article), **31**: 156
MERRILL, J. P., Diagnosis and treatment of renal hypertension of humoral origin (review), **24**: 479
——, see VANDAM, L. D., jt. auth.
MESSICK, J. M., JR., see THEYE, R. A., jt. auth.
Metabolic acidosis
effect on CO_2 titration (Mithoefer & others), **30**: 395
Metabolic and Endocrine Disorders—Clinical Considerations (seminar) (report of meeting), **28**: 641
Metabolism: see also under names of specific compounds
acidosis (current comment), **21**: 87
anesthetics and (editorial) (Adriani), **29**: 407
of anesthetics chloroform in the mouse (Cohen & Hood), **30**: 306
breakdown of thiopental determined by gas chromatographic analyses of serum barbiturate levels (Furano & Greene), **24**: 796

carbohydrate and fat, autonomic nervous system and (Havel), **29**: 702
carbohydrate, studies during anesthesia (abstract), **21**: 101
cerebral, effect of halothane on (Theye & Michenfelder), **29**: 1113
cerebral, effect of hexafluorodiethyl ether and trifluoroethyl vinyl ether on (Ling & Krantz), **21**: 518
cerebral, effect of hypothermia on (Michenfelder & Theye), **29**: 1107
cerebral, effect of inhalation anesthetics on (abstract), **21**: 89
cerebral, effect of nitrous oxide on (Theye & Michenfelder), **29**: 1119
cerebral, effects of hypocapnia and dilutional anemia (Michenfelder & Theye), **31**: 449
cerebral tolerance to thiopental (Altenburg & others), **31**: 443
and circulatory aspects of halothane anesthesia (abstract), **27**: 226
diethyl ether in the mouse (Cohen & Hood), **31**: 61
of drugs employed in anesthesia (Greene), **29**: 127, 327
effects of methoxyflurane and halothane in dogs (Dobkin & Fedoruk), **22**: 355
halothane in the mouse (Cohen & Hood), **31**: 553
halothane-2 ^{14}C in the mouse (Cohen), **31**: 560
lactate, pyruvate, and excess lactate production in anesthetized man (Greene), **22**: 404
myocardial, in halothane-depressed canine heart (Merin), **31**: 20
myocardial, in patients having aortic-valve replacement (Moffitt & others), **31**: 310
production of carbon dioxide (review) (Fleischer), **21**: 597
skeletal-muscle, and oxygen tension during induced hypotension and vasopressure administration (Willenkin & Greene), **24**: 168
Metaraminol (Aramine Bitartrate)
as vasopressor agent in spinal anesthesia (Munchow & others), **21**: 471
ventricular tachycardia produced by, during cyclopropane anesthesia in dogs (Siebecker & others), **22**: 555
METCALF, D. R., see VIRTUE, R. W., jt. auth.
METCALFE, J., Placental gas transfer (review), **26**: 460
Methdilazine (MU 5022)
antisialogogue effect of (Dobkin & Palko), **21**: 260
Methemoglobin; see under Blood
Methemoglobinemia
and propitocaine (current comment), **26**: 569
Methohexital (Brevital)
effect of liver function (Bittrich & others), **24**: 81
induction dose in dog, effect of standard cyanotic circulatory lesion on (abstract), **26**: 254
modification of method of analysis in human plasma (Brand & others), **24**: 867
new ultrashort acting barbiturate (Taylor & Stoelting), **21**: 29
physiologic disposition (Brand & others), **24**: 331
Methotrimeprazine (Levoprome)
circulatory and respiratory response to tilt with (abstract), **26**: 253
circulatory response to tilting following (Helrich & Gold), **25**: 662
effect on respiration (Pearson & DeKornfeld), **24**: 38
Methoxamine (Vasoxyl)
acute hemodynamic effects in man (Smith & Whitcher), **28**: 735
and cardiac output in nonanesthetized man and during spinal anesthesia (Li & others), **26**: 21
Methoxyflurane (Penthrane) (2,2-dichloro-1,1-difluoroethyl methyl ether): see also under Anesthesia
anesthesia, cardiovascular effects (Walker & others), **23**: 639
anesthesia, decreased adrenal venous catecholamines during (Li & others), **29**: 1145
anesthesia during controlled bleeding in dogs (abstract), **27**: 207
anesthesia, effect of epinephrine on dog heart during (Bamforth & others), **22**: 169
anesthesia, nephrotoxicity associated with (Crandall & others), **27**: 591
blood and tissue levels in dogs (Chenoweth & others), **23**: 101
cardiovascular effects of (abstract), **23**: 164; (Bagwell & Woods), **23**: 51
cardiovascular, respiratory, and metabolic effects in dogs (Dobkin & Fedoruk), **22**: 355
clinical evaluation (Artusio & others), **21**: 512; (Knox & others), **23**: 238
concentrations from the Cyprane inhaler (clinical workshop), **28**: 770
contamination of soda lime with (current comment), **24**: 741
and diethyl ether, comparative effects in man (abstract), **28**: 259
effect of electromyogram, neuromuscular transmission, and spinal reflex (abstract), **23**: 158
effect of subanesthetic concentration on pain threshold (Siker & others), **28**: 337
effect on central respiratory mechanisms (abstract), **24**: 136
effect on myocardial mechanics (abstract), **29**: 215; (Shimosato & others), **30**: 506
effect on myocardial mechanics in the digitalized heart (abstract), **30**: 336
effect on plastic catheters (current comment), **25**: 857
effect on recovery cycles of click-evoked potentials from cat auditory cortex (Kitahata), **29**: 523
effect on respiration during controlled bleeding (abstract), **29**: 171
effect on ventilation (Larson & others), **30**: 174
effects on arterial pressure, preganglionic sympathetic activity and baroctatic reflexes (Skovsted & Price), **31**: 515
effects on force of contraction of rat heart (Paradise & Bibbins), **31**: 349

XUM

effects on human liver cells *in vitro* (Corssen & others), **27**: 155
effects on renal blood flow of dog (abstract), **26**: 240
effects on renal function (current comment), **25**: 707
effects of ventilation and solubility on recovery from (Stoelting & Eger), **39**: 290
effects on ventilation in man (Dunbar & others), **28**: 1020
electroencephalogram as monitor of arterial blood levels (abstract), **28**: 275
electroencephalogram as monitor of arterial blood levels (Wolfson & others), **28**: 1003
flammability under hyperbaric oxygen conditions (current comment), **27**: 195
gradients during anesthesia (abstract), **26**: 251
hepatic and renal effects in surgical patients (abstract), **26**: 257
hepatic and renal effects of in dogs (Cale & others), **23**: 248
high blood levels (correspondence) (Wolfson), **31**: 194
in blood, gas chromatographic determination (Gladsden & others), **23**: 831
influence on potassium content of rat atria (Paradise & Griffith), **26**: 195
inhalation in dogs, blood levels and cardiovascular dynamics during (Bagwell & others), **23**: 243
intravenous anesthetic emulsions, use in animals and man (current comment), **22**: 491
lack of hydrate formation (Eger & Shargel), **30**: 136
minimum alveolar concentration (abstract), **27**: 225
minimum alveolar concentration (Saidman & others), **28**: 994
-nitrous oxide anesthesia, effect on arterial *p*H, oxygen saturation, $Paco_2$ and plasma bicarbonate (Dobkin & Song), **23**: 601
nonrebreathing respirator-controlled anesthesia with (current comment), **24**: 254
phenoxybenzamine and, in anesthetic management of pheochromocytoma (Crout & Brown), **30**: 29
programmed closed-circuit anesthesia (abstract), **30**: 345
and renal function (correspondence), **28**: 637
report on (editorial) (Vandam), **27**: 534
respiratory, circulatory and hepatic effects in dogs (abstract), **22**: 138
respiratory effect of (abstract), **22**: 143
solubility in human blood and tissue homogenates (Eger & Shargel), **24**: 625
solubility in plastics (current comment), **26**: 828
solubility in rubber (Eger & Brandstater), **24**: 679
and sympathetic-nerve stimulation, effects on myocardial mechanics (Shimosato & others), **29**: 538
uptake at constant alveolar and inspired concentration (Eger), **25**: 284
uptake at constant inspired and alveolar concentrations (abstract), **25**: 94
Methylphenidate (Ritalin)
additive effects with bemegride (Gale), **22**: 210
effect of, on thiopental ventilatory depression (abstract), **21**: 94
for treatment of hiccups during anesthesia (clinical workshop), **31**: 89
Methylxanthines
and sympathomimetic amines inducing cardiac arrhythmias, relationship between (Ueda & others), **22**: 926
Metzgar, M. T., see Eggers, G. W. N., jt. auth.
Meyer, J. A., see Perry, L. B., jt. auth.
Mezistrani, J., see Young, T. M., jt. auth.
Michenfelder, J. D., Gronert, G. A., and Rehder, K., Neuroanesthesia (review), **30**: 65
——, MacCarty, C. S., and Theye, R. A., Physiologic studies following closed-chest technique of profound hypothermia in neurosurgery, **25**: 131
——, Terry, H. R., Jr., Daw, E. F., MacCarty, C. S., and Uihlein, A., Profound hypothermia in neurosurgery: open-chest versus closed-chest techniques, **24**: 177
——, and Theye, R. A., Hypothermia: effect on canine brain and whole-body metabolism, **29**: 1107
——, and Theye, R. A., The effects of profound hypocapnia and dilutional anemia on canine cerebral metabolism and blood flow, **31**: 449
——, see Altenberg, B. M., jt. auth.
——, see Theye, R. A., jt. auth.
Microcirculation: see Blood, microcirculation
Microhematocrit
serial determinations (current comment), **23**: 134; **23**: 587
serial determinations in evaluating blood replacement (Jacobs & others), **22**: 342
Micromethods in neuropharmacology: an approach to the study of anesthetics (Salmoiraghi & Weight), **28**: 54
Middle East Journal of Anaesthesiology (editorial) (Vandam), **28**: 486
Middleton, V., Van Poznak, A., Artusio, J. F., Jr., and Smith, S. M., Carbon monoxide accumulation in closed circle anesthesia systems, **26**: 715
Midwest Anesthesia Conference IV (report of meeting) (Eckenhoff), **29**: 218
Milai, A. S., Davis, G., and Safar, P., Simplified apparatus for IPPB/aerosol therapy (current comment), **26**: 362
Milde, J. H., see Theye, R. A., jt. auth.
Millar, R. A., and Morris, M. E., Apneic oxygenation in adrenalectomized dogs, **22**: 433
——, and Morris, M. E., Norepinephrine release during respiratory acidosis in adrenalectomized dogs, **22**: 62
——, see Price, H. L., jt. auth.
Millard, R. M., The cultural component (editorial), **24**: 421

XUM

Millen, J. E., see Smith, J. D., jt. auth.
Miller, E. V., (current comment, **23**: 581
——, and Crocker, J. S., The flexed back and post-lumbar puncture headache (current comment), **25**: 80
Miller, K. W., How do anesthetics work? (editorial), **30**: 127
Miller, R. D., Wahrenbrock, E. A., Schroeder, C. F., Knipstein, T. W., Eger, E. I., II, and Buechel, D. R., Ethylene–halothane anesthesia: addition or synergism? **31**: 301
——, Way, W. L., and Eger, E. I., II, The effects of alpha-methyldopa, reserpine, guanethidine, and iproniazid on minimum alveolar anesthetic requirmeent (MAC), **29**: 1153
——, Way, W. L., and Hickey, R. F., Inhibition of succinylcholine-induced increased intraocular pressure by non-depolarizing muscle relaxants, **29**: 123
——, Way, W. L., and Katzung, B. G., Potentiation of muscle relaxants by quinidine (correspondence), **29**: 1069
——, Way, W. L., and Katzung, B. G., The potentiation of neuromuscular blocking agents by quinidine, **28**: 1036
Miller, R. N., and Thomas, P. A., Pulmonary surfactant: determinations from lung extracts of patients receiving diethyl ether or halothane, **28**: 1089
Miller, S. L., see Eger, E. I., II, jt. auth.
Miller, W. F., Oxygen therapy. Catheter, mask, hood and tent (review), **23**: 445
Milligan, D., see Calesnick, B., jt. auth.
Minimum alveolar concentrations
see also Anesthesia, anesthetic index of methoxyflurane, halothane, ether and cyclopropane in man (Saidman & others), **28**: 994
Mishalove, R. D., see Morse, H. T., jt. auth.
——, see Price, H. L., jt. auth.
Misrahy, G. A., Beran, A. V., and Prescott, E. J., Effects of drugs used in pregnancy on availability of fetal cerebral oxygen, **24**: 198
Mital, M., see Harris, W. H., jt. auth.
Mitchell, C., see Pittinger, C., jt. auth.
Mitchell, G. D., see Egbert, L. D., jt. auth.
——, see Tolmie, J. D., jt. auth.
Mitchell, R. A., Pulmonary function and tests for ventilatory adequacy (review), **23**: 422
Mithoefer, J. C., Bossman, O. G., and Thibeault, D. W., The effect of metabolic acidosis on the CO_2 titration curve, **30**: 395
Mitochondria, halothane effects on oxygen uptake (Cohen & others), **30**: 337
Mitosis
anesthetics and (editorial) (Andersen), **30**: 361
effect of halothane (Bruce & Traurig), **30**; 401
Mitral Valvulotomy
closed with halothane and nitrous oxide anesthesia, oxygenation during (abstract), **26**: 248
MJ 1999
neuromuscular effects and interaction with muscle relaxants (Usubiaga), **29**: 484
Modell, J. H., Septicemia as a cause of immediate postoperative hyperthermia (current comment), **27**: 329
——, and Davis, J. H., Electrolyte changes in human drowning victims, **30**: 414
——, Gaub, M., Moya, F., Vestal, B., and Swarz, H., Physiologic effects of near drowning with chlorinated fresh water, **27**: 33
——, Giammona, S. T., and Davis, J. H., Effect of chronic exposure to ultra-sonic aerosols on the lung, **28**: 680
——, Heinitsh, H., and Giammoma, S. T., The effects of wetting and antifoaming agents on pulmonary surfactant, **30**: 164
——, and Moya, F., Effects of volume aspirated fluid during chlorinated fresh water drowning, **27**: 662
——, Moya, F., Williams, H. D., and Weibley, T. C., Changes in blood gases and A-aDO_2 during near-drowning, **29**: 456
——, Swarz, H., and Moya, F., A simple ventilometer (current comment), **26**: 113
——, Weibley, T. C., Ruiz, B. C., and Newby, E. J., Serum electrolyte concentrations after fresh-water aspiration, **30**: 421
Moffitt, E. A., Rosevear, J. W., Townsend, C. H., and McGoon, D. C., Myocardial metabolism in patients having aortic-valve replacement, **31**: 310
——, Tarhan, S., and Lundborg, R. O., Anesthesia for cardiac surgery: principles and practice (review), **29**: 1181
——, see Theye, R. A., jt. auth.
——, see Wang, J. K., jt. auth.
Moghul, T., see Folkman, J., jt. auth.
Molloy, R. E., (with Foldes, F. F.; Hillmer, N. R., and Monte, A. P.), Potentiation of the neuromuscular effect of succinylcholine by hexafluorenium, **21**: 50
Monitor(s): see also under Apparatus and equipment
cardiac (current comment), **21**: 326
cardiovascular (current comment), **22**: 123
and clinical judgment (editorial), **22**: 120
continuous, of respiration (current comment), **23**: 585
during anesthesia (current comment), **22**: 643; **23**: 135
radio telemetry for patients (current comment), **22**: 1010
respiratory, infant (current comment), **21**: 774
Monitoring
automated blood pressure, during surgical anesthesia (current comment), **27**: 861
continuous, of muscle relaxant action, nerve stimulator for (current comment), **26**: 832
Monoamine oxidase inhibition, effects on actions of meperidine and norepinephrine (abstract), **28**: 261
Monosaccharides
inhalation anesthetics and permeability of human erythrocytes to (Greene), **26**: 731
Montaner, C. G., see Rusy, B. F., jt. auth.

Monte, A. P. (with Foldes, F. F.; Hillmer, N. R., and Molloy, R. E.), Potentiation of the neuromuscular effect of succinylcholine by hexafluorenium, **21**: 50
——, see Foldes, F. F., jt. auth.
Moore, D. C., The Wood Library-Museum of Anesthesiology (the need is immediate), **22**: 663
——, Bridenbaugh, L. D., Bagdi, P. A., and Bridenbaugh, P. O., Accumulation of mepivacaine hydrochloride duriug caudal block (clinical workshop), **29**: 585
——, Bridenbaugh, L. D., Bagdi, P. A., Bridenbaugh, P. O., Stander, H., and Thomas, G. B., Tabulation of anesthetic data: an improved system (clinical workshop), **29**: 595
——, (with Nellermoe, C. W., and others), a clinical appraisal of 2-chloroprocaine in continuous caudal obstetrical anesthesia, **21**: 269
——, see Bridenbaugh, L. D., jt. auth.
Moore, Francis D. (with Vandam, L. D.), Adrenocortical mechanisms related to anesthesia (Review), **21**: 531
Moore, J., and Dundee, J. W., (current comment), **23**: 881
Moore, R. H., see Mostert, J. W., jt. auth.
Moore, W. T., see Dowdy, E. G., jt. auth.
Moraca, P. P., Bitte, E. M., Hale, D. E., Wasmuth, C. E., and Poutasse, E. F., Clinical evaluation of sodium nitroprusside as a hypotensive agent, **23**: 193
Morbidity
  influence of sex on (Gordh), **25**: 466
Morehead, R. T., see Stevens, W. C., jt. auth.
Morgan, A. P., The pulmonary toxicity of oxygen (medical intelligence), **29**: 570; (editorial), **30**: 587
Morgan, B. C., Crawford, E., W., and Guntheroth, W. G., The hemodynamic effects of changes in blood volume during intermittent positive-pressure ventilation, **30**: 297
——, Crawford, E. W., Hornbein, T. F., Martin, W. E., and Guntheroth, W. G., Hemodynamic effects of changes in arterial carbon dioxide tension during intermittent positive pressure breathing, **28**: 866
——, Martin, W. E., Hornbein, T. F., Crawford, E. W., and Guntheroth, W. G., Hemodynamic effect of intermittent positive pressure respiration, **27**: 584
Morgan, J. L., see Kirby, R. R., jt. auth.
Morgan, W., see de Lemos, R., jt. auth.
Mori, K., see Winters, W. D., jt. auth.
Mori, M., see Virtue, R. W., jt. auth.
Morikawa, K.-I., see de Jong, R. H., jt. auth.
Morikawa, S., Safar, P., and DeCarlo, J., Influence of the head-jaw position upon upper airway patency, **22**: 265
Morishima, H. O., and Adamsons, K., Placental clearance of mepivacaine following administration to the guinea pig fetus, **28**: 343
——, Daniel, S. S., Finster, M., Poppers, P. J., and James, L. S., Transmission of mepivacaine (Carbocaine) across the human placenta, **27**: 147
——, see Daniel, S. S., jt. auth.
——, see Shnider, S. M., jt. auth.
Morphine: see also Preanesthetic Medication; Narcotics
  analgesic action of (abstract), **23**: 154
  comparison of various drug combinations as pediatric preanesthetic medication (Eger & others), **22**: 962
  convulsant doses in the cat (Tuttle & Elliott), **30**: 48
  effect on cardiovascular system of dog anesthetized with cyclopropane (Schull & others), **22**: 199
  effect on respiration and gas exchange (Smith & others), **28**: 883
  effects on increased intracranial pressure (Weitzner & others), **24**: 291
  effects on respiratory response curve (abstract), **23**: 139
  -induced respiratory depression, specific and nonspecific antagonism of (Papadopoulos & Keats), **23**: 86
  and nitrous oxide, effect on minimum anesthetic concentration of fluroxene (Munson & others), **26**: 134
  plus sleep, effect on respiratory response to carbon dioxide (Forrest & Bellville), **25**: 137
  relatively respiratory depressant effects of oxymorphone (Numorphan) and (Bellville & others), **21**: 397
  respiratory depressant effect of (abstract), **27**: 213
  respiratory effects of (abstract), **21**: 90
Morphology
  cell, fine structure of cell contact and the synapse (Kelly), **28**: 6
  spinal cord, functional organization of (Eccles), **28**: 31
Morris, J. J., see Price, H. L., jt. auth.
Morris, L. E., (participant-panel discussion), What is the significance of hypercarbia or hypocarbia in the anesthetized patient? **21**: 759
——, see Carson, S. A. A., jt. auth.
——, see Roffey, P. J., jt. auth.
——, see Young, T. M., jt. auth.
Morris, M. E., see Millar, R. A., jt. auth.
Morris, R. E., Jr., see Graff, T. D., jt. auth.
Morris, R. H., and Trachtenberg, H. A., Physiologic alterations induced by blood-warming during ether anesthesia, **29**: 1174
Morrow, A. G., see Morrow, D. H., jt. auth.
Morrow, D. H., Bosomworth, P. P., and Stapp, I. P., Jr., A cardiotape recording system (clinical workshop), **29**: 842
——, Dixon, W. M., Townley, N. T., and Herbert, C. L., A safety modification of the Air-Shields Ventimeter Ventilator (current comment), **26**: 361

——, Gaffney, T. E., and Holman, J. E., The chronotropic and inotropic effects of halothane. A comparison of effects in normal and chronically cardiac denervated dogs, **22**: 915
——, and Morrow, A. G., The effects of halothane on myocardial contractile force and vascular resistance, **22**: 537
——, see Rein, J., jt. auth.
Morrow, P. E., see Lovejoy, F. W., Jr., jt. auth.
Morse, H. T., Linde, H. W., Mishalove, R. D., and Price, H. L., Relation of blood volume and hemodynamic changes during halothane anesthesia in man, **24**: 790
——, see Price, H. L., jt. auth.
Mortality
due to anesthesia, reflections on (Papper), **25**: 454
influence of sex on (Gordh), **25**: 466
obstetric (review) (Phillips & Hulka), **26**: 435
Moscow, see U.S.S.R.
Mosher, R. E., see Bittrich, N. M., jt. auth.
Mosley, J. W., and Dull, H. B., Transfusion-associated viral hepatitis (review), **27**: 409
Moss, G., (current comment), **22**: 121
Moster, W. G., Reier, C. E., Gardier, R. W., and Hamelberg, W., Cardiac output and postganglionic sympathetic activity during acute respiratory alkalosis, **31**: 28
Mostert, J. W., Moore, R. H., and Murphy, G. P., Nomograms for estimation of peripheral resistance and work of the heart (clinical workshop), **30**: 569
——, and Trudnowski, R. J., Persistent postoperative idionodal hypotension treated with minimal bicarbonate (current comment), **28**: 226
——, Trudnowski, R. J., Lam, F. T., and Moore, R. H., Hematocrit values at various sites in man (clinical workshop), **29**: 145
Motility
gastrointestinal, effects of halothane on (Marshall & others), **22**: 363
Motor Endplate: see Muscle
Motoyama, E. K., American Academy of Pediatrics (report of meeting), **29**: 391
——, Conference on airway dynamics (report of meeting), **30**: 580
——, Gluck, L., Kikkawa, Y., Kulovich, M. V., and Suzuki, Y. O., The effects of inhalation anesthetics on pulmonary surfactant (abstract), **30**: 347
——, Rivard, G., Acheson, F., and Cook, C. D., The effect of changes in maternal *p*H and P_{CO_2} on the P_{O_2} of fetal lambs, **29**: 891
Mouth
prop holder for tonsillectomy (current comment), **25**: 569
Mouth Gag
modification of Crowe-Davis (current comment), **22**: 494
Moya, F., (current comment), **22**: 644
——, and Kvisselgaard, N., The placental transmission of succinylcholine, **22**: 1
——, and Margolies, L., Hydrolysis of succinylcholine by placental homogenates, **22**: 11
——, and Smith, B. E., Uptake, distribution and placental transport of drugs and anesthetics (review), **26**: 465
——, see Kvisslegaard, N., jt. auth.
——, see Modell, J. H., jt. auth.
——, see Nagel, E. L., jt. auth.
——, see Shnider, S. M., jt. auth.
——, see Smith, B. E., jt. auth.
——, see Smotrilla, M. M., jt. auth.
——, see Usubiaga, J. E., jt. auth.
Moyers, J., (current comment), **22**: 843
Muallem, M., Larson, C. P., and Eger, E. I., II, The effects of diethyl ether on Pa_{CO_2} in dogs with and without vagal, somatic and sympathetic block, **30**: 185
——, see Brandstater, B., jt. auth.
——, see Eisele, J. H., jt. auth.
——, see Larson, C. P., Jr., jt. auth.
——, see Saidman, L. J., jt. auth.
Mucolytic Agents
aerosols and bronchodilators (review) (Lovejoy & Morrow), **23**: 460
Muehlbaecher, C. A., see Featherstone, R. M., jt. auth.
Muench, L. F., see Clark, R. B., jt. auth.
Muldoon, S. M., and Theye, R. A., The effects of succinylcholine and *d*-tubocurarine on oxygen consumption, **31**: 437
Mullinax, P. F., Jr., see Malt, R. A., jt. auth.
Munchow, O. B.; Granatelli, A. F.; Collins, V. J., and Rovenstine, E. A., Clinical experiences with metaraminol as a vasopressor agent in spinal anesthesia, **21**: 471
Muneyuki, M., Ueda, Y., Urabe, N., Takeshita, H., and Inamoto, A., Postoperative pain relief and respiratory function in man: comparison between intermittent intravenous injections of meperidine and continuous lumbar epidural analgesia, **29**: 304
Munson, E. S., Blood/gas partition coefficient of divinyl ether (current comment), **25**: 406
——, and Bowers, D. L., Effects of hyperventilation on the rate of cerebral anesthetic equilibration, **28**: 377
——, and Cullen, S. C., Endotracheal intubation in a patient with ankylosing spondylitis of the cervical spine (current comment), **26**: 365
——, and Eger, E. I., II, Controlled ventilation of the newborn (current comment), **24**: 871
——, and Eger, E. I., II, Methoxyflurane solubility in plastics (current comment), **26**: 828
——, Eger, E. I., II, and Bowers, D. L., The effects of changes in cardiac output and distribution on the rate of cerebral anesthetic equilibration. Calculations using a mathematical model, **29**: 533
——, Farnham, M., and Hamilton, W. K., Studies of respiratory gas flows. A comparison using different anesthetic agents, **24**: 61

XUM

——, Hoffman, J. C., and di Fazio, C. A., The effects of acute hypothyroidism and hyperthyroidism on cyclopropane requirement (MAC) in rats, **29**: 1094
——, and Hunter, F. P., Jr., Nerve stimulator (current comment), **27**: 511
——, Larson, C. P., Jr., Badad, A. A., Regan, M. J., Buechel, D. R., and Eger, E. I., II, The effects of halothane, fluroxene and cyclopropane on ventilation: a comparative study in man, **27**: 716
——, and Merrick, H. C., Effect of nitrous oxide on venous air embolism, **27**: 783
——, Saidman, L. J., and Eger, E. I., II, Effect of nitrous oxide and morphine on the minimum anesthetic concentration of fluroxene, **26**: 134
——, Saidman, L. J., and Eger, E. I., II, Fluroxene: uptake in man at constant inspired concentrations, **26**: 8
——, Saidman, L. J., and Eger, E. I., II, Solubility of fluroxene in blood and tissue homogenates, **25**: 638
——, and Wagman, I. H., Acid-base changes during lidocaine-induced seizures in M. *mulatta*. (abstract), **30**: 347
——, and Wagman, I. H., Action of lidocaine in the central nervous system (editorial), **30**: 3
——, see Eger, E. I., II, jt. auth.
——, see Gregory, G. A., jt. auth.
——, see Larson, C. P , Jr., jt. auth.
——, see Saidman, L. H., jt. auth.
Munson, W. M., Cardiac arrest: hazard of tipping a vaporizer (current comment), **26**: 235
——, and Jenicek, J. A., Effect of anesthetic agents on patients receiving reserpine therapy, **23**: 741
Murphy, G. P., see Benson, D. W., jt. auth.
——, see Mostert, J. W., jt. auth.
Murphy, J. D., see Martin, S. J., jt. auth.
Murphy, J. G., (current comment), **22**: 638
Murphy, Q. R., see Davis, L. D., jt. auth.
——, see Gutgesell, H. P., jt. auth.
Murphy, T. O., see Bonica, J. J., jt. auth.
Murray, J. E., see Vandam, L. D., jt. auth.
Muscarinic cholinergic blocking agents
central and peripheral effects in man (Domino & Corssen), **28**: 568
Muscle: see also under specific organs; Neuromuscular
action of Imbretil on isolated human intercostal (Sabawala & Dillon), **22**: 569
blood flow during cyclopropane (Cullen & others), **31**: 398
blood flow, transient effect of thiopental in cat (Acheson), **24**: 658
changing pattern of neuromuscular blockade caused by succinylcholine (Crul & others), **27**: 729
combined effect of cyclopropane and depolarizers on isolated human (Sabawala & Dillon), **22**: 564
dual neuromuscular block (Churchill-Davidson & others), **21**: 144
effect of methoxyflurane on electromyogram, neuromuscular transmission and spinal reflex (abstract), **23**: 158
effects of general anesthetics on contractile responses of rabbit aortic strips (Price & Price), **23**: 16
effects of volatile anesthetic agents on neuromuscular transmission (Karis & others), **28**: 128
electromyograph in study of ventilation under spinal anesthesia (abstract), **23**: 165
electromyographic effects of halothane (Katz & Gissen), **28**: 564
heart, isolated, effect of halothane on force-velocity relations and dynamic stiffness of (Sugai & others), **29**: 267
heart isolated, effects of halothane on isometric contractions of (Goldberg & Ullrick), **28**: 838
influence of solvent on myoneural effects of intramuscular succinylcholine (Foldes & others), **23**: 213
isolated human, effects of neostigmine (abstract), **23**: 160
measurement of bronchomotor tone (abstract), **24**: 132
mechanism of action of Imbretil (Bowman & others), **22**: 573
mode of action of diethyl ether in blocking neuromuscular transmission (Karis & others), **27**: 42
myocardial contractility, measurement of (editorial) (Blinks), **28**: 800
neuromuscular and electromyographic studies, effects of hyperventilation, carbon dioxide inhalation and *d*-tubocurarine (Katz & Wolf), **25**: 781
neuromuscular block during prolonged arterial infusion with succinylcholine (Gissen & others), **27**: 242
neuromuscular block, potentiation by quinidine (Miller & others), **29**: 1036
neuromuscular block with succinylcholine (correspondence), **28**: 791
neuromuscular block by *d*-tubocurarine in children (Long & Bachman), **28**: 723
neuromuscular block by germine acetates (abstract), **28**: 249
neuromuscular block with succinylcholine and decamethonium in man (de Jong & Freund), **28**: 583
neuromuscular block, prolonged, causing overcurarization (current comment), **28**: 231
neuromuscular block, technique for evaluation in man (current comment), **28**: 215
neuromuscular blockade by succinylcholine in children (Nightingale & others), **27**: 736
neuromuscular blocking agents, combined use with halothane (abstract), **22**: 149
neuromuscular blocking agents, effect of alkalosis on action of (Katz & others), **24**: 18

neuromuscular blocking agents, role of hexafluorenium in interactions of (Torda & others), **28**: 1010
neuromuscular effects of beta-adrenergic blockers (Usubiaga), **29**: 484
neuromuscular effects of cyclopropane (abstract), **26**: 263
neuromuscular effects of diethyl ether and its interaction with succinylcholine and *d*-tubocurarine (Katz), **27**: 52
neuromuscular effects of gamma-aminobutyrylcholine derivatives (abstract), **23**: 146
neuromuscular effects of *d*-tubocurarine, edrophonium and neostigmine in man (Katz), **28**: 327
neuromuscular junction, clinical pharmacology (editorial) (Nastuk), **31**: 3
neuromuscular refractory period of anesthetized man, effects of nondepolarizing relaxants and anticholinesterases (Epstein & others), **31**: 69
neuromuscular transmission in newborn (Churchill-Davidson & Wise), **24**: 271
nondepolarizing neuromuscular blocking action of succinycholine (Katz & others), **24**: 784
oxygen consumption, effects of succinylcholine and *d*-tubocurarine on (Muldoon & Theye), **31**: 437
oxygen tension, changes associated with hypotension and vasopressor therapy (abstract), **23**: 166
pain following administration of succinylcholine, incidence and prevention (Lamoreaux & Uhrbach), **21**: 394
potentiation of neuromuscular effect of succinylcholine by hexafluorenium (Foldes & others), **21**: 50
relaxation during anesthesia, association with spinal reflex response in man (de Jong & others), **28**: 382
relaxation, monitoring by integrated abdominal electromyogram (Fink), **21**: 178
rigidity following administration of succinylcholine (clinical workshop), **29**: 159
skeletal, effects of barbiturates on function (Borgman & others), **21**: 150
skeletal, effects of diethyl ether on carbohydrate metabolism in (Brunner), **30**: 24
skeletal, effects of halothane and cyclopropane on (Cristoforo & Brody), **29**: 36
skeletal, esophageal and rectal temperatures during general anesthesia and operation (Wollman & Cannard), **21**: 476
(skeletal) oxygen tension and metabolism during induced hypotension and vasopressor administration (Willenkin & Greene), **24**: 168
spontaneous and evoked activity, comparison of electrical and mechanical recording (Katz), **26**: 204
surgical relaxation, use of toxiferine for production of (Foldes & others), **22**: 93; (correction), **22**: 854
tracheal smooth, effects of general anesthetic agents on (Fletcher & others), **29**: 517
d-tubocurarine effects on neuromuscular transmission (Heisterkamp & others), **30**: 500
twitch, tetanus, and posttetanic potentiation as indices of nerve block (Gissen & Katz), **30**: 481
uterine, effects of halothane, cyclopropane, and nitrous oxide on (abstract), **29**: 206
Muscle Relaxants: see also under Muscles; names of specific agents and compounds; Succinylcholine; Curare; Toxiferine; Imbretil; Trimethylammoniumcaproylcholine; *d*-Tubocurarine
action, nerve stimulator for continuous monitoring of (current comment), **26**: 832
combined effect of cyclopropane and depolarizers on isolated human muscle (Sabawala & Dillon), **22**: 564
effects on neuromuscular refractory period (abstract), **30**: 340
interaction with beta-adrenergic blockers (Usubiaga), **29**: 484
kinetics of distribution of ^{14}C-succinyl*di*choline and ^{14}C-succinyl*mono*choline (Dal Santo), **29**: 435
method of clinical assay (abstract), **21**: 102
neuromuscular effects of gamma-aminobutyrylcholine derivatives (abstract), **23**: 146
-nitrous oxide-narcotic anesthesia, hyperventilation studies during (Markello & others), **24**: 225
nondepolarizing, effects on neuromuscular refractory period (Epstein & others), **31**: 69
and pain perception (editorial), **22**: 314
potentiation by quinidine (correspondence) (Usubiaga; Miller, Way & Katzung), **29**: 1068
radioactive, determination in rat by whole-body autoradiography (Cohen & others), **29**: 987
regional use (current comment), **27**: 689
and renal excretion (Churchill-Davidson & others), **28**: 540
respiration and asphyxia, effect on cardiac output in dog (Opdyke & others), **21**: 244
respiratory complications in infants with (Salanitre & Rackow), **22**: 194; (current comment), **22**: 852
response of infants and children to (Lim & others), **25**: 161
studies in unanesthetized subjects (Foldes & others), **22**: 230
Myasthenia Gravis
guide for anesthesiologists (review) (Foldes & McNall), **23**: 837
undiagnosed, sensitivity to curare by patient with (current comment), **27**: 325; (correspondence), **27**: 870
Meyers, R. A., see Wilger, R. N., jt. auth.
Mylaxen: see Hexafluorenium Bromide
Myocardium: see also under Heart
contractile state in anesthesia and surgery (review) (Siegel), **30**: 519
contractility, isovolemic intraventricular pressure changes as index (Shimosato), **31**: 327

XUM

mechanics, effect of Ethrane on (Shimosato & others), **30**: 513
mechanics, effect of methoxyflurane on (Shimosato & others), **30**: 506
metabolism in halothane-depressed canine heart (Merin), **31**: 20
metabolism in patients having aortic-valve replacement (Moffitt & others), **31**: 310
Myroneural Junction: see under Muscles; Nerves

N

NACE, R. A., see DE JONG, R. H., jt. auth.
NACHMAN, R., see DE LEMOS, R., jt. auth.
NADEL, J. A., see HICKEY, R. F., jt. auth.
NADEL, W., see SOLOWAY, M., jt. auth.
NAGEL, E. L., MOYA, F., BURG, S. P., VESTAL, B., and JALOWAYSKI, A., Dichlorohexafluorobutane concentration in clinical vaporizers (laboratory investigation), **27**: 673
——, see CRINO, M. H., jt. auth.
——, see SMOTRILLA, M. M., jt. auth.
NAGLE, D. R., (current comment), **23**: 136
——, The use of anesthetic agents in psychiatry, **24**: 91
NAHAS, G. G., Acid-base balance (correspondence), **28**: 787
——, Conference on Early Treatment of Severe Burns (meeting report), **28**: 472
——, Further light on the acid-base debate (special report), **27**: 6
——, KYPSON, J., TRINER, L., and VULLIEMOZ, Y., The effects of acidosis on glycolysis and pentose shunt in skeletal muscle (abstract), **30**: 348
——, see DOS, S. J., jt. auth.
NAITO, H., and GILLIS, C. N., Anesthetics and response of atria to sympathetic nerve stimulation, **29**: 259
NAKAJIMA, M., see YAMAMURA, H., jt. auth.
Naloxone
interaction with oxymorphone (abstract), **30**: 343
Narcosis: see Anesthesia; Electronarcosis
Narcotic Antagonists
as analgesics (abstract), **21**: 117
circulatory effects of (abstract), **21**: 115
-narcotic mixtures (review) (Telford & Keats), **22**: 465
respiratory and circulatory effects of (abstract), **25**: 95
specificity of (Foldes & others), **26**: 320
Narcotic properties of carbon dioxide in the dog (Eisele & others), **28**: 856
Narcotics: see also under specific compounds
analgesic and butyrophenone with nitrous oxide for general anesthesia (Holderness & others), **24**: 336
analgesics, circulatory response to tilt with, in normal healthy male subjects (Dobkin & Criswick), **22**: 398
analgesics, prolongation of thiopental induced sleep by (Dobkin), **22**: 291
circulatory effects of (abstract), **21**: 115
effects of N-allyloxymorphone-narcotic mixtures (abstract), **24**: 129
-narcotic anatagonist mixtures (review) (Telford & Keats), **22**: 465
newer, premedication in infants and children utilizing (abstract), **22**: 142
-nitrous oxide-relaxant anesthesia hyperventilation studies during (Markello & others), **24**: 225
and postoperative pulmonary function (abstract), **26**: 258
premedication, effect on alveolar concentration of halothane required for anesthesia (Saidman & Eger), **25**: 302
psychologic factors influencing postoperative narcotic administration (abstract), **28**: 246
respiratory depression associated with relief of pain by (Keats & Girgis), **29**: 1006
Nasogastric tube: see also Apparatus and equipment modified (current comment), **24**: 253
Nasopharynx, anesthetizing prior to awake nasal intubation (clinical workshop), **30**: 111
NASSIRI-RAHIMI, C., see NICODEMUS, H. F., jt. auth.
NASTUK, W. L., Clinical pharmacology of the neuromuscular junction (editorial), **31**: 3
——, see KARIS, J. H., jt. auth.
NATIONAL ACADEMY OF SCIENCES—National Research Council, Committee on Anesthesia, Workshop on Intensive Care Units, **25**: 192
National Halothane Study, final report (editorial) (Bunker), **29**: 231
National Halothane Study, Report of the Pathology Panel (special communication) (Gall), **29**: 233
Nausea
postanesthetic (review) (Bellville), **22**: 773
and vomiting, postoperative (Bellville & others), **21**: 186
Near-drowning
changes in blood gases and A-aDO_2 during (Modell & others), **29**: 456
Nebulization: see also under Aerosols; Ultrasonic mists; Humidification
atomizer (clinical workshop), **28**: 625
chronic, effect on lung (Modell & others), **28**: 680
during anesthesia (current comment), **26**: 116
effect of water particles on airway resistance in normal and bronchitic patients (abstract), **29**: 180
of isoproterenol (clinical workshop), **28**: 1102
on acetylcysteine (Hamlow & Peck), **28**: 934
ultrasonic, assessment of (Stevens & Albregt), **27**: 648
Nebulized epinephrine in management of acute epiglottitis (clinical workshop), **31**: 581
Nebulizer
for anesthetic system (current comment), **23**: 583
Needles: see also under Apparatus
Cheng epidural, introducer for (current comment), **24**: 739
epidural (current comment), **22**: 1018
epidural, holder for (current comment), **23**: 880
new, for controlled spinal drainage (current comment), **25**: 240
spinal, deterioration of (current comment), **22**: 493

spinal, small gauge cone-tip (current comment), **22**: 122
Tuohy (current comment), **21**: 87
NEFF, N. H., see NGAI, S. H., jt. auth.
NEFF, W. B., The Wood Library-Museum of Anesthesiology (don't bury the Library-Museum in suburbia), **22**: 632
——, BURKE, S. F., and THOMPSON, R., A Venturi circulator for anesthetic systems (clinical workshop), **29**: 838
NELLERMOE, C. W.; MOORE, D. C.; BRIDENBAUGH, L. D.; CASADY, G. N., and BRALY, B., A clinical appraisal of 2-chloroprocaine in continuous caudal obstetrical anesthesia, **21**: 269
NELSON, A. T., see PHILLIPS, O. C., jt. auth.
NELSON, D. C., see FIELDER, D. L., jt. auth.
NELSON, D. H., Present status of the problem of iatrogenic adrenal cortical insufficiency (review), **24**: 457
NEMAZIE, A. S., and KITZ, R. J., A quantitative technique for the evaluation of peripheral neuromuscular blockade in man (current comment), **28**: 215
Nembutal: see Pentobarbital
Neomycin
intraperitoneal, respiratory arrest and (current comment), **21**: 224; 437
Neomycin-curare
neuromuscular block and reversal in cats (Stanley & others), **31**: 228
Neostigmine
as curare antagonist (abstract), **22**: 148; (Wescott & Bendixen), **23**: 324
cardiovascular effects (Fielder & others), **30**: 637
effect on heart rate (Gravenstein & Perkins), **27**: 298
effects on isolated human muscle (abstract), **23**: 160
neuromuscular effects in man (Katz), **28**: 327
Neo-Synephrine: see Phenylephrine
Nephrotoxicity: see under Kidneys
Nerves
baroreceptor reflexes, effects of halothane and cyclopropane on (Cristoforo & Brody), **29**: 36
blocks: see also Anesthesia, peridural; Brachial plexus block; Celiac plexus block; Muscle block; neuromuscular block
adrenergic blockade and acute hemorrhage in splenectomized dogs (abstract), **28**: 277
assessment of in therapeutics (Papper), **28**: 1074
autonomic innervation in relation to (Bonica), **29**: 793
axillary, and sedation for cardiac catheterization (clinical workshop), **28**: 936
axillary, of brachial plexus (De Jong), **22**: 215
Block-Aid monitor in (clinical workshop), **30**: 236; **31**: 290
brachial plexus, comparison of supraclavical and axillary techniques for (Brand & Papper), **22**: 226
effects of diethyl ether on dogs with and without (Muallem & others), **30**: 185
epidural (comment), **28**: 786
epidural, exaggerated spread of (current comment), **28**: 229
epidural, relief of arterial spasm in sympathectomized patient by (clinical workshop), **28**: 1107
ganglionic blocking potencies of anesthetics (Price & Price), **28**: 349
gasserian ganglion block for trigeminal neuralgia (review article) (Greenberg & Papper), **31**: 566
"immobile needle" for (clinical workshop), **31**: 577
intrathecal, positioning guide for (clinical workshop), **28**: 627
medial antebrachial cutaneous nerve (clinical workshop), **30**: 242
motor, level during high spinal and epidural anesthesia (Freund & others), **28**: 834
musculocutaneous and perineal, in spasticity, nerve stimulator for (current comment), **28**: 219
myoneural, phase II, earliest evidence of (abstract), **28**: 250
neuromuscular blocking agents, role of hexafluorenium in interactions of (Torda & others), **28**: 1010
obturator, simplified approach (clinical workshop), **28**: 775
permanent, with an image intensifier (clinical workshop), **29**: 600
potentiation by quinidine (Miller & others), **28**: 1040
stellate ganglion, continuous (clinical workshop), **28**: 632
stellate ganglion, in cryofibrinogenemia (clinical workshop), **28**: 628
technique for evaluation in man (current comment), **28**: 215
changing pattern of neuromuscular blockade caused by succinylcholine (Crul & others), **27**: 729
conduction velocity during hypothermia (de Jong & others), **27**: 805
dual neuromuscular block (Churchill-Davidson & others), **21**: 144
effect of carbon dioxide on neurohumoral and endocrine mechanisms (review) (Tenney), **21**: 674
effect of halothane on H-reflex in man (abstract), **29**: 191
effect of methoxyflurane on electromyogram neuromuscular transmission and spinal reflex (abstract), **23**: 158
effects of anesthetics on cortical units (Robson), **28**: 144
effects of *d*-tubocurarine antagonized by pyridostigmine (Katz), **28**: 533
effects of inhalation anesthetics on motor nerve activity (Van Poznak), **28**: 124
effects of volatile anesthetics on neuromuscular transmission (Karis & others), **28**: 128

XUM

endings, sympathetic, uptake and release of norepinephrine following cyclopropane and halothane (Ngai & others), **31**: 45
ganglionic actions of general anesthetic agents, pharmacologic analysis (Garfield & others), **29**: 79
impulse conduction and cutaneous receptor responses during general anesthesia (de Jong & Nace), **28**: 851
impulse conduction during intravenous lidocaine injection (de Jong & Nace), **29**: 22
influence of solvent on myoneural effects of intramuscular succinylcholine (Foldes & others), **23**: 213
lateral antebrachial cutaneous (terminal musculocutaneous), modified axillary block (de Jong), **26**: 615
maxillary, block, significance of variations of skull in (Priman and Etter), **22**: 42
mode of action of diethyl ether in blocking neuromuscular transmission (Karis & others), **27**: 42
neurologic deficit following spinal anesthesia (clinical workshop), **28**: 785
neuromuscular and electromyographic studies, effects of hyperventilation, carbon dioxide inhalation and *d*-tubocurarine (Katz & Wolf), **25**: 781
neuromuscular block during prolonged arterial infusion with succinylcholine (Gissen & others), **27**: 242
neuromuscular blockade by succinylcholine in children (Nightingale & others), **27**: 736
neuromuscular blocking agents, combined use with halothane (abstract), **22**: 149
neuromuscular blocking agents, effect of alkalosis on action of (Katz & others), **24**: 18
neuromuscular effect of gamma-aminobutyrylcholine derivatives (abstract), **23**: 146
neuromuscular effects of beta-adrenergic blockers (Usubiaga), **29**: 484
neuromuscular effects of cyclopropane (abstract), **26**: 263
neuromuscular effects of diethyl ether and its interaction with succinylcholine and *d*-tubocurarine (Katz), **27**: 52
neuromuscular transmission in newborn (Churchill-Davidson & Wise), **24**: 271
nondepolarizing neuromuscular blocking action of succinylcholine (Katz & others), **24**: 784
peripheral block by local anesthetics physiological mechanisms of (de Jong & Wagman), **24**: 684
peripheral block with dilute phenol solutions in treatment of spasticity (abstract), **26**: 254
phrenic, activity in hypercapnia and hypoxia (Garcia & Cherniack), **28**: 1029
potentiation of neuromuscular effect of succinylcholine by hexafluorenium (Foldes & others), **21**: 50
sciatic block, anterior approach (Beck), **24**: 222
sciatic block, knee jerk reflex for evaluating effectiveness of (current comment), **27**: 690
sensory input at the spinal-cord level, control of as possible mechanism of anesthesia (abstract), **29**: 183
spinal reflexes during hyperventilation (Kitahata & others), **31**: 321
stellate ganglionic transmission and myocardial contractile force during halothane anesthesia (Li & others), **29**: 444
stimulator (current comment), **27**: 511; **28**: 219
stimulator for continuous monitoring of muscle relaxant action (current comment), **26**: 832
stimulator, portable peripheral (current comment), **26**: 224
subarachnoid block with phenol-glycerine for relief of intractable pain (current comment), **24**: 584
subclavian perivascular technique of brachial plexus anesthesia (Winnie & Collins), **25**: 353
sympathetic, anesthetics and response of atria to stimulation of (Naito & Gillis), **29**: 259
sympathetic excitation by cyclopropane (Price & others), **30**: 426
sympathetic, norepinephrine release from, effects of anesthetics on (abstract), **29**: 207
sympathetic, stimulation and methoxyflurane effects on myocardial mechanics (Shimosato & others), **29**: 538
synaptic transmission, effects of halothane and nitrous oxide (de Jong & others), **31**: 205
tibial, H-reflex as measure of anesthetic potency (Freund & others), **30**: 642
trigeminal, "specific" analgesic effect of trichlorethylene upon (Defalque), **22**: 379
Nervous System: see Nerve; Brain; Subarachnoid Space; Central nervous system; Neurophysiology
autonomic:
and pain (Haugen), **29**: 785
beta-adrenergic blocking agents and (Krasnow & Barbarosh), **29**: 814
cardiac arrhythmias produced by interaction of anesthetic agents and adrenergic drugs (Katz & Epstein), **29**: 763
catecholamines, biosynthesis and metabolism (Kopin), **29**: 654
catecholamines, sampling and analysis (Crout), **29**: 661
central neural components (Chase & Clemente), **29**: 625
clinical assessment of function (Thomson & Melmon), **29**: 724
historical aspects of (Leake), **29**: 623
innervation of viscera in relation to nerve block (Bonica), **29**: 793
introduction to symposium on (editorial) (Vandam), **29**: 621
metabolism of carbohydrates and fats (Havel), **29**: 702
pharmacologic tools in research (Wurtman & Zigmond), **29**: 714
regulation of blood volume (Mason & Bartter), **29**: 681

regulation of body temperature (Hemingway & Price), **29**: 693
regulation of cardiovascular performance (Mason), **29**: 670
synaptic transmission, functional anatomy (Koelle), **29**: 643
transmission in sympathetic ganglion (Carpenter), **29**: 634
vasopressor drugs and catecholamines (Zaimis), **29**: 732
barostatic reflexes, effects of halothane on (Skovsted & others), **31**: 507
barostatic reflexes, effects of methoxyflurane on (Skovsted & Price), **31**: 515
central, actions of cyclopropane in dog (Price & others), **24**: 1
central actions of halothane affecting circulation (abstract), **24**: 139
central actions of halothane affecting the systemic circulation (Price & others), **24**: 770
central, and urea induced serum hyperosmolality (Benson & Murphy), **22**: 24
central, effect of lidocaine on (abstract), **21**: 89; **28**: 155
central, effects of hyperventilation during anesthesia (abstract), **22**, 128
central, toxicity of hyperoxia, effect of anesthetic drugs on (abstract), **26**: 250; (Harp & others), **27**: 615
effect of thiopental on human cerebral evoked responses (Abrahamian & others), **24**: 650
effects of muscarinic cholinergic blocking agents on central and peripheral nervous systems (Domino & Corssen), **28**: 568
effects of steroid hormones on central nervous system (Heuser), **28**: 173
emerging methods for studying neural mechanisms in man (editorial), **24**: 610
ganglionic transmission during methoxyflurane and halothane anesthesia (abstract), **30**: 349
morphology, fine structure of cell contact and the synapse (Kelley), **28**: 6
morphology, functional organization of the spinal cord (Eccles), **28**: 31
neurological sequelae of spinal anesthesia (review) (Greene), **22**: 682
parasympathetic, parasympathomimetic activity of atropine and atropine methylbromide (Kottmeier & Gravenstein), **29**: 1125
phantom limb (editorial), **25**: 742
phantom sensations during spinal anesthesia (Prevoznik & Eckenhoff), **25**: 767
physiology: see Neurophysiology
physiology and pharmacology of epidural analgesia (Bromage), **28**: 592
role of carbon dioxide in (review) (Woodbury & Karler), **21**: 686
spinal reflex (H-reflex) during general anesthesia (de Jong & others), **28**: 382
sympathetic, anesthetic effects (editorial) (Biscoe), **31**: 395
sympathetic, effects of halothane (Skovsted & others), **31**: 507
sympathetic, effects of nitrous oxide and halothane (Hornbein and others), **31**: 250
sympathetic, effects of methoxyflurane (Skovsted & Price), **31**: 515
sympathetic blockade, method for estimation of blood volume with (abstract), **22**: 136
sympatho-adrenal responses to cyclopropane anesthesia in dog, influence of reserpine on (Bagwell & others), **25**: 148
sympatho-adrenal responses to ether anesthesia in dog, influence of reserpine on (Bagwell & others), **25**: 15
synaptic transmission, facilitation by lidocaine (de Jong & others), **30**: 19
Nesacaine: see Chloroprocaine
Neuroanatomy: see also Nervous system, morphology
autonomic innervation of viscera in relation to nerve block (Bonica), **29**: 793
autonomic nervous system, central neural components (Chase & Clemente), **29**: 625
synaptic transmission, functional anatomy of (Koelle), **29**: 643
Neuroanesthesia (review) (Michenfelder & others), **30**: 65
Neuroleptanalgesia
clinical studies with Innovar (current comment), **28**: 458
effects of fentanyl and droperidol on pain thresholds (clinical workshop), **29**: 834
hemodynamics during (abstract), **26**: 266
origin and rationale of (editorial), **24**: 267
Neuromuscular Block: see also under Muscles; Nerves; specific procedures and agents
by pronethalol, propranolol, and MJ 1999 (Usubiaga), **29**: 484
germine diacetate effects (Foldes & others), **31**: 522
hexafluorenium in interactions of (Torda & others), **28**: 1010
hypercarbia during light halothane anesthesia with (Davenport & others), **25**: 307
nature of "depolarization block" (special article) (Waud), **29**: 1014
neomycin-curare and reversal in cats (Stanley and others), **31**: 228
new compounds *in vivo* and *in vitro* (abstract), **29**: 201
quinidine potentiation of (Miller & others), **28**: 1036
twitch, tetanus, and post-tetanic potentiation as indices (Gissen & Katz), **30**: 481
use of *in vitro* technique in the development of new (abstract), **29**: 199
with succinylcholine and decamethonium (correspondence), **29**: 166
Neuromuscular junction: see Muscle
Neuromuscular refractory period: see Muscle
Neuromuscular Transmission: see also under Muscles; Nerves; specific compounds and procedures
and somatic reflexes, effects of anesthetics on (Ngai & others), **26**: 162

XUM

Block-Aid monitor in study (Epstein & others), **30**: 43
d-tubocurarine effects on in anesthetized man (Heisterkamp & others), **30**: 500
Neuropathology
delayed postanoxic encephalopathy (current comment), **24**: 398
Neurophysiology
anesthesia (Winters & others), **28**: 65
anesthesia, mechanisms of (editorial) (Wall), **28**: 799
anesthetics, volatile effects on neuromuscular transmission (Karis & others), **28**: 128
autonomic function, clinical assessment of (Thomson & Melmon), **29**: 724
autonomic nervous system and pain (Haugen), **29**: 785
autonomic nervous system, central neural components (Chase & Clemente), **29**: 625
autonomic regulation of blood volume (Mason & Bartter), **29**: 681
autonomic regulation of body temperature (Hemingway & Price), **29**: 693
autonomic regulation of carbohydrate and fat metabolism (Havel), **29**: 702
autonomic regulation of cardiovascular performance (Mason), **29**: 670
brain stem mechanisms of sleep (Zanchetti), **28**: 81
catecholamines and metabolites, sampling and analysis (Crout), **29**: 661
catecholamines, biosynthesis and metabolism (Kopin), **29**: 654
chemical transmission and cortical arousal (Krnjević), **28**: 100
Conference on, in Relation to Anesthesiology, **28**: 1
"depolarization block" (special article) (Waud), **29**: 1014
drugs, vasopressor and catecholamines (Zaimis), **29**: 732
effects of anesthetics on cortical units (Robson), **28**: 144
effects of anesthetics on mammalian spinal cord (Somjen), **28**: 135
effects of preanesthetic and anesthetic drugs on visually evoked responses (Domino), **28**: 184
effects of volatile anesthetics on neurons (Chalazonitis), **28**: 111
ganglia, sympathetic, transmission in (Carpenter), **29**: 634
ganglionic actions of general anesthetic agents (Garfield & others), **29**: 79
metabolism of drugs employed in anesthesia (Greene), **29**: 127, 327
nerve impulse conduction and cutaneous receptor responses during general anesthesia (de Jong & Nace), **28**: 851
pain mechanisms (Lim), **28**: 106
pharmacologic tools in autonomic nervous system research (Wurtman & Zigmond), **29**: 714
physiology and pharmacology of epidural analgesia (Bromage), **28**: 592
stellate ganglionic transmission and myocardial contractile force during halothane anesthesia (Li & others), **29**: 444
synaptic transmission, functional anatomy of (Koelle), **29**: 643
Neurosurgery
infant, effects of inadvertent hypothermia in (Hackett & Crosby), **21**: 356
physiologic studies following closed-chest technique of profound hypothermia in (Michenfelder & others), **25**: 131
profound hypothermia in, open-chest vs. closed-chest techniques (Michenfelder & others), **24**: 177
ventilator techniques of anesthesia for (abstract), **22**: 143
NEVILLE, J. F., JR., see DOBKIN, A. B., jt. auth.
New England Journal of Medicine (editorial), **23**: 386; (correction), **23**: 596
New York Heart Association Symposium on the Contractile Process (report of meeting), **28**: 639
Newborn: see under Infants
adverse effect on, of severe maternal hyperventilation (abstract), **24**: 135
response to succinylcholine and *d*-tubocurarine (Walts & Dillon), **31**: 35
NEWBY, E. J., see MODELL, J. H., jt. auth.
NEWMAN, P. K., Non-conductive operating rooms (correspondence), **31**: 193
NGAI, S. H., On the Hering-Breuer reflex and breathing during anesthesia (editorial), **29**: 408
——, DIAZ, P. M., and OZER, S., The uptake and release of norepinephrine: effects of cyclopropane and halothane, **31**: 45
——, HANKS, E. C., and FARHIE, S. E., Effects of anesthetics on neuromuscular transmission and somatic reflexes, **26**: 162
——, NEFF, N. H., and COSTA, E., The effects of cyclopropane and halothane on the biosynthesis of norepinephrine in vivo: conversion of ^{14}C-tyrosine to catecholamines, **31**: 53
——, see BLACKBURN, W. R., jt. auth.
——, see DIAZ, P. M., jt. auth.
——, see FINK, B. R., jt. auth.
——, see HANKS, E. C., jt. auth.
——, see KATZ, R. L., jt. auth.
NGAI, S. S., see BARTELSTONE, H. J., jt. auth.
NICODEMUS, H. F., and DOWNES, J. J., Ventilatory alterations associated with operation for tetralogy of Fallot, **31**: 265
——, NASSIRI-RAHIMI, C., BACHMAN, L., and SMITH, T. C., Median effective doses (ED50) of halothane in adults and children, **31**: 344
NIGHTINGALE, D. A., GLASS, A. G., and BACHMAN, L., Neuromuscular blockade by succinylcholine in children, **27**: 736
——, and RICHARDS, C. C., Volume-pressure relations of the respiratory system of curarized infants, **26**: 710
NILSSON, E., Origin and rationale of neuroleptanalgesia (editorial), **24**: 267

NILSSON, S. E., see SLATER, E. M., jt. auth.
Nitrogen
curves and analysis of CO_2 for estimating efficiency of ventilation (abstract), **24**: 137
infrared carbon dioxide pressure broadening by, correction factors for (Severinghaus & others), **22**: 429
Nitrous Oxide: see also under Anesthesia
alteration of human consciousness by, assessed by electroencephalography and psychological tests (Henrie & others), **22**: 247
and halothane anesthesia, oxygenation during closed mitral valvulotomy with (abstract), **26**: 248
and hypocarbia, splanchnic circulation during (Cooperman and others), **29**: 254
and low inflow circle systems (Smith), **27**: 266
and morphine, effect on minimum anesthetic concentration of fluroxene (Munson & others), **26**: 134
anesthesia in bowel obstruction and pneumothorax, hazards of (Eger & Saidman), **26**: 61
anesthesia, studies during, cerebral carbohydrate metabolism during hypocarbia (Alexander & others), **26**: 624
carcinostatic action in mice (abstract), **27**: 214
cardiovascular effect of, during halothane anesthesia in dog (Smith & Corbascio), **27**: 560
cerebral circulation during (Wollman & others), **26**: 329
circulatory effects of, added to halothane anesthesia (abstract), **29**: 212
concentration in circle system (Eger), **21**: 348
-curare, effects on postoperative respiratory adequacy (Boutros), **26**: 743
effect of atmosphere of, and oxygen on incubating chick (abstract), **25**: 109
effect on alveolar concentration of halothane required for anesthesia (Saidman & Eger), **25**: 302
effect of canine cerebral metabolism (Theye & Michenfelder), **29**: 1119
effect on venous air embolism (Munson & Merrick), **27**: 783
effects of ventilation and solubility on recovery from (Stoelting & Eger), **30**: 290
effects on arterial oxygenation (Heller & others), **28**: 904
effects on baroreflex control of heart rate (Bristow & others), **31**: 422
effects on dorsal horn neurons (de Jong & others), **31**: 205
effects on middle ear mechanics and hearing acuity (Waun & others), **28**: 846
effects on middle ear pressure (clinical workshop), **28**: 948
effects on responses to halothane (Hornbein & others), **31**: 250
failure as immunosuppressant in transplant therapy (clinical workshop), **30**: 235
ganglionic blocking potency and interaction with halothane (Price & Price), **28**: 349
growth-inhibiting effect on chick embryos (abstract), **28**: 268
halothane, and oxygen anesthesia, blood gas studies during spontaneous respiration (abstract), **26**: 247
hexamethonium effect on catecholamine response to (abstract), **30**: 352
infrared carbon dioxide pressure broadening by, correction factors for (Severinghaus & others), **22**: 429
inhalation, effect on hemopoiesis in rats (Green & Eastwood), **24**: 341
inhibition of sodium transport (Gottlieb & Savran), **28**: 324
Innovar and urinary epinephrine and norepinephrine during anesthesia with (Giesecke & others), **28**: 701
-methoxyflurane anesthesia, effect on arterial *p*H, oxygen saturation P_{aCO_2} and plasma bicarbonate (Dobkin & Song), **23**: 601
minimum alveolar concentration (abstract), **27**: 225
narcotic analgesic and butyrophenone with, for general anesthesia (Holderness & others), **24**: 336
-narcotic-relaxant anesthesia, hyperventilation studies during (Markello & others), **24**: 225
oxygen and, arterial blood oxygenation during thoracotomy using (Boutros & Weisel), **28**: 705
-oxygen anesthesia, arterial oxygen tension measurements during (Slater & others), **26**: 642
-oxygen "flush" system (current comment), **23**: 129
-oxygen mixture, apneic oxygenation following respiration with (abstract), **25**: 102
partial pressures in dog and man, delayed approach of arterial to alveolar (Eger & others), **27**: 288
percutaneous loss (Stoelting and Eger), **30**: 278
preliminary oxygenation prior to induction with high nitrous oxide mixtures (Heller & Watson), **23**: 219
safety in use: modification of standard anesthetic machine (technical notes) (Matteo & others), **31**: 361
solubility in water and canine blood (Sy & Hasbrouck), **25**: 59
solubility in water, determination by gas chromatography (laboratory methods) (Borstedt & Gillies), **26**: 675
toxicity, exposure of anesthetists to (Linde & Bruce), **30**: 363
uptake and excretion of subanesthetic concentration of (Salanitre & others), **23**: 814
uptake in brain during anesthesia (Alexander & others), **25**: 37; correction **25**: 581
uptake in infants and children (Salanitre & Rackow), **30**: 388
NOBEL, J. J., A new portable clinical suction device (clinical workshop), **29**: 1217

XUM

Noe, F. E., Sekino, E., and Greifenstein, F. E., Effect of buffer amine infusion on certain blood constituents in hypercarbia and hypocarbia, **23**: 651
Noehren, T. H., and Cudmore, J. W., Ethyl ether content in blood as determined by gas chromatography, **22**: 519
Nomenclature
of inhalation anesthetic systems (editorial), **25**: 3
Nomograms
for deadspace requirement during prolonged artificial ventilation (clinical workshop), **29**: 1206
for estimation of peripheral resistance and work of the heart (clinical workshop), **30**: 569
for gas mixtures in respiratory therapy (clinical workshop), **29**: 830
for oxygen content, saturation and pressure at hyperbaric conditions (Fuson & others), **27**: 176
Nonrebreathing System
modified (current comment), **25**: 238
Norepinephrine: see also Catecholamines
and angiotensin, comparison of effect on blood volume and viscosity (abstract), **25**: 109
and halothane actions in isolated mammalian heart (Flacke & Alper), **23**: 793
cyclopropane effects (editorial) (Gillis), **31**: 1
cyclopropane and halothane effects (Ngai & others), **31**: 45
cyclopropane and halothane effects in vivo: conversion of ^{14}C-tyrosine to catecholamines (Ngai & others), **31**: 53
effect of anesthetic gases on disposition (Naito & Gillis), **29**: 259
endogenous, and epinephrine in plasma, atrium and urine, extracorporeal circulation and, comparison of ether and halothane anesthesia (Anton & others), **25**: 262
release during respiratory acidosis in adrenalectomized dogs (Millar & Morris), **22**: 62
stores and their functional compartments (editorial), **25**: 259
urinary, during Innovar-nitrous oxide anesthesia (Giesecke & others), **28**: 701
Norman, J. N., see McDowall, D. G., jt. auth.
Normand, C., see Avery, M. E., jt. auth.
Normothermia
and at moderate hypothermia during constant-depth halothane anesthesia, ventilatory response to hypercapnia and hypoxia (Regan & Eger), **27**: 624
Norris, F. (with Hall, K. D., and Downs, S.), Physical chemistry of halothane-ether mixtures, **21**: 522
North, W. C., see Knox, P. R., jt. auth.
——, see Stephen, C. R., jt. auth.
Norton, M. L., and Kubota, Y., Experiences with cardiac catheterization using halothane-compressed-air anesthesia, **21**: 374
Nose
obstruction of nasotracheal tube by impacted nasal secretions (current comment), **23**: 589
"Nothria"
(current comment), **21**: 569
Numorphan: see Oxymorphone
Nunn, J. E., see Kain, M. L., jt. auth.
Nunn, J. F., (current comment), **23**: 718
——, Elimination of carbon dioxide by the lung (review), **21**: 620
——, Oxygen tension temperature factor (correspondence), **27**: 204
——, Dixon, K. L., and Lovis, J. D., The effects of halothane on mitosis (abstract), **30**: 348
— —, and Ezi-Ashi, T. I., The respiratory effects of resistance to breathing in anesthetized man, **22**: 174
——, see Greenbaum, R., jt. auth.
Nyhan, W. L., and Lampert, F., Response of the fetus and newborn to drugs (review), **26**: 487

O

Obese patient
management (clinical workshop), **29**: 846
Obituary
Paul Meyer Wood, M.D., 1894–1963, **24**: 612
Obstetrician
view of anesthesiology (editorial) (Reid), **26**: 377
Obstetrics: see also under Delivery; Labor; Pregnancy; Puerperium; Fetus; Infant, newborn; Fetal-maternal relations
accumulation of mepivacaine hydrochloride during caudal block (clinical workshop), **29**: 585
acid-base status of fetus, effect of anesthesia on (clinical workshop), **30**: 238
adverse effects on newborn of severe maternal hyperventilation (abstract), **24**: 135
and anesthesiology (editorial) (Hingson), **26**: 378
anesthesia, cerebrospinal fluid pressures during labor and (Marx & others), **22**: 348
anesthesiology and (correspondence), **27**: 101
blood loss and fetal ECG with halothane anesthesia (abstract), **23**: 140
cerebrospinal fluid proteins and spinal anesthesia in (Marx & Orkin), **26**: 340
cesarean section, acute hydration for prevention of hypotension of spinal anesthesia during (clinical workshop), **29**: 374
cesarean section, intravenous thiobarbiturate anesthesia for (Kosaka & others), **31**: 489
cesarean section, safety of thiopental in (abstract), **29**: 190
clinical and biochemical studies of cyclopropane analgesia in (Shnider & others), **24**: 11
clinical appraisal of 2-chloroprocaine in continuous caudal anesthesia (Nellermoe & others), **21**: 269
effect of the concentration of local anesthetic during epidural anesthesia on the forces of labor (abstract), **29**: 187
effects of drugs used in pregnance on availability of fetal cerebral oxygen (Misrahy & others), **24**: 198
fetal arrhythmia during caudal block with prilocaine (current comment), **28**: 222
halothane anesthesia in (abstract), **26**: 256

maternal hyperventilation during labor (editorial) (James), **28**: 804
mepivacaine vs. lidocaine for caudal anesthesia (Gunther & Bauman), **31**: 5
mortality (review) (Phillips & Hulka), **26**: 435
organization of anesthesia service (review) (Shnider), **26**: 562
plasma levels of lidocaine in mother and newborn following obstetrical conduction anesthesia (Shnider & Way), **29**: 951
prilocaine for epidural analgesia (Poppers & Finster), **29**: 1134
shock (review) (Marx), **26**: 423
thiobarbiturate-succinylcholine-oxygen for cesarean section (abstract), **30**: 344
Obstruction
laryngeal, due to cricoarytenoid arthritis (current comment), **27**: 518
of nasotracheal tube by impacted nasal secretions (current comment), **23**: 589
reinforced endotracheal tube—diversion of air from cuff balloon producing (current comment), **27**: 513
respiratory (current comment), **26**: 577
respiratory, during bronchography (current comment), **26**: 234
unusual cause for respiratory (case report) (current comment), **25**: 402
Occlusion
vascular disease (current comment), **24**: 884
OECH, S. R., see DEMING, M. V., jt. auth.
OGLESBY, J. E., An oro-endotracheal tube brace for infants (clinical workshop), **30**: 333
OHTA, K., see YOKOTA, T., jt. auth.
Oil
solubility of diethyl ether in (Eger & others), **24**: 676
OKADA, K., see YAMAMURA, H., jt. auth.
O'LEARY, T., see KLEMM, W. R., jt. auth.
OMINSKY, A. J., and WOLLMAN, H., Hazards of general anesthesia in the reserpinized patient (medical intelligence), **30**: 443
ONKST, H. R., (current comment), **22**: 846
OPDYKE, D. F.; CANNILLA, J. E., and BORSUK, G. M., Effect of respiration, asphyxia and muscle relaxants on cardiac output in the dog, **21**: 244
Open-Chest Technique: seen under Hypothermia; Resuscitation
Operating Room
estimation of blood loss in (current comment), **22**: 318; (correction), **22**: 499
fire hazard in (current comment), **27**: 858
non-conductive (correspondence) (Newman), **31**: 193
Operating suite
and special areas, symposium on, **31**: 103
planning (symposium article) (Agnew), **31**: 116
planning (symposium article) (Friesen), **31**: 107
planning, nurse's view (symposium article) (Gowin), **31**: 181
Operations: see Surgery and specific surgical operations and procedures
Orinithine Carbamyl Transferase: see **Liver**, enzymes
ORKIN, L. R., see ANDREWS, I. C., jt. auth.
——, see BAEZ, S., jt. auth.
——, see BECSEY, L. S., jt. auth.
——, see EDELIST, G., jt. auth.
——, see FRIEDMAN, A. R., jt. auth.
——, see HERSHEY, S. G., jt. auth.
——, see MARX, G. F., jt. auth.
——, see WOLLMAN, S. B., jt. auth.
ORR, R. B., A new laryngoscope blade designed to facilitate difficult endotracheal intubation (clinical workshop), **31**: 377
ORTH, O. S. (with BAMFORTH, B. J.; SIEBECKER, K. L., and STEINHAUS, J. E.), A clinical comparison of chloroform and halothane by a blind study technique, **21**: 273
——, see BAMFORTH, B. J., jt. auth.
——, see SIEBECKER, K. L., jt. auth.
2-Orthochlorophenyl, 2-methylamino cyclohexane HCl (CI-581) (Virtue & others), **28**: 823
Osmolality
of spinal anesthetic agents (current comment), **27**: 86
OSORIO, A., see EDELIST, G., jt. auth.
Ostwald Coefficients: see Solubility Coefficients
OSWALD, A. J. (with SCHULTZ, E. A.; BUCKLEY, J. J., and VAN BERGEN, F. H.), Profound acidosis in an anesthetized human, report of a case **21**: 285
OTIS, R. D., see BANNISTER, W. K., jt. auth.
OUNKASEM, K., see DOBKIN, A. B., jt. auth.
OVADIA, L. O., LI, T.-H., and ETSTEN, B. E., Mechanisms of ganglionic transmission during methoxyflurane and halothane anesthesia (abstract), **30**: 349
OVASSAPIAN, A., see DUNBAR, B. S., jt. auth.
OWRE, E. S., see BURBANK, B., jt. auth.
——, see SCHETTINI, A., jt. auth.
Oxidative-Phosphorylation
in acute hyperthermia (medical intelligence) (Wang & others), **30**: 439
mechanism, disturbances as possible etiological factor in sudden unexplained hyperthermia occurring during anesthesia (abstract), **27**: 231
Oxygen
administration by mask in pressure chamber (McDowall & others), **26**: 720
administration, device for (current comment), **24**: 876
and carbon dioxide tensions as factors in respiration after apnea from hyperventilation (Sugioka & others), **23**: 776
anoxia, cerebral, induced hypothermia following (Strong & Keats), **28**: 920
anoxia, role in asphyxial death (Kristoffersen & others), **28**: 488
apnea, respiratory obstruction with (current comment), **24**: 880
apneic oxygenation following respiration with air or nitrous oxide-oxygen mixture (abstract), **25**: 102

XUM

apneic oxygenation in adrenalectomized dogs (Millar & Morris), **22**: 433
apneic oxygenation, polarographic arterial tension study (Heller & others), **25**: 25
arterial blood oxygenation during thoracotomy using nitrous oxide-oxygen (Boutros & Weisel), **28**: 705
arterial, during hypothermia (Hedley-Whyte & others), **26**: 595
arterial oxygenation during transition from 100 per cent oxygen to air breathing, polarographic study (Heller & Watson), **22**: 385; (correction), **22**: 854
arterial saturation, effect of apnea, suction and hyperventilation on (Downes & others), **22**: 29
arterial tension measurements during nitrous oxide-oxygen anesthesia (Slater & others), **26**: 642
at five atmospheres absolute, physiologic responses of anesthetized dog (Gutsche & others), **27**: 615
blood tension, measurement in anesthesia (review) (Laver & Seifen), **26**: 73
can general anesthetics produce splanchnic visceral hypoxia by reducing regional blood flow? (Price & others), **27**: 24
central and peripheral venous saturations during spinal anesthesia (abstract), **27**: 209
consumption acute tolerance to thiopental (Altenburg & others), **31**: 443
consumption during total cardiopulmonary bypass, influence of anesthetic technique on (Underwood & others), **21**: 263
consumption, effect of halothane on (Theye), **28**: 1042; (Theye & Sessler), **28**: 661
consumption, effects of succinylcholine and *d*-tubocurarine on (Muldoon & Theye), **31**: 437
consumption equation, simplified (clinical workshop), **30**: 468
consumption, in brain, effects of cyclopropane and diethyl ether (Matteo & others), **30**: 156
consumption of rat brain, liver and heart, effect of halothane on (Hoech & others), **27**: 770
consumption, modified EHN spirometer for (clinical workshop), **29**: 1226
content, saturation and pressure at hyperbaric conditions, nomogram for (Fuson & others), **27**: 176
cyclic variation in blood, with respiratory cycle (Bergman), **22**: 900
delayed postanoxic encephalopathy (current comment), **24**: 398
determination in blood containing halothane (laboratory methods) (Theye), **30**: 325
during closed mitral valvulotomy with halothane and nitrous oxide anesthesia (abstract), **26**: 248
effect of anesthesia on tolerance of dog brain to anoxia (abstract), **25**: 98
effect of anesthetic drugs on central nervous system toxicity of hyperoxia (abstract), **26**: 250
effect of atmosphere of, and nitrous oxide on incubating chick (abstract), **25**: 109
effect of mainstream nebulization on oxygenation with IPPB (current comment), **24**: 580
effect of standard cyanotic circulatory lesion on induction dose of methohexital in dog (abstract), **26**: 254
effect of various concentrations of oxygen on pulmonary circulation (abstract), **21**: 96
effects of THAM on cerebrospinal fluid pressure during apneic oxygenation (abstract), **21**: 105
efficacy of administration (current comment), **22**: 1013
electroencephalogram of awake man during hyperventilation: effects of oxygen at three atmospheres (abstract), **27**: 211
fetal cerebral, effects of drugs used in pregnancy on availability of (Misrahy & others), **24**: 198
high concentration, adaptation of Ambu respirator for (current comment), **24**: 877
hyperbaric conditions, flammability of halothane, methoxyflurane and fluroxane under (current comment), **27**: 195
hyperbaric, effect of anesthetics on central nervous system toxicity of (Harp & others), **27**: 608
hyperbaric oxygenation, anesthesia and drug effects (special article), **26**: 812
hyperventilation with, possible cause of cerebral hypoxia (Sugioka & Davis), **21**: 135
hypoxemia in shock and myocardial infarction (abstract), **29**: 211
hypoxia, caused by anesthetic flowmeter sequence (current comment), **24**: 396
hypoxia in near-drowning (Modell & others), **29**: 456
hypoxia, phrenic nerve activity in (Garcia & Cherniack), **28**: 1029
in blood, measurement of by O_2 electrode (clinical workshop), **28**: 773
inhalation, hemodynamic effects of (abstract), **23**: 144
intrarenal tension, anatomy and physiology of, effects of anesthetics (Leonhardt & others), **26**: 648
intrathecal, effects of cortical survival during cardiac arrest (abstract), **23**: 155
local anesthetic toxicity modified by (Daos & others), **23**: 755
muscle tension, changes associated with hypotension and vasopressor therapy (abstract), **23**: 166
-nitrous oxide "flush" system (current comment), **23**: 129
oxygenation prior to induced apnea (Fujimori & Virtue), **21**: 46
potassium superoxide as source during resuscitation (abstract), **24**: 125
preliminary oxygenation prior to induction with high nitrous oxide mixtures (Heller & Watson), **23**: 219
pulmonary toxicity (medical intelligence) (Morgan), **29**: 570; (editorial) (Morgan), **30**: 587

pulmonary toxicity in dogs under controlled ventilation (abstract), **27**: 210
saturation (arterial), effect of methoxyflurane-nitrous oxide anesthesia on (Dobkin & Song), **23**: 601
saturation, rate of fall during apnea, effect of variation in lung volume and alveolar gas composition on (abstract), **22**: 128
tension, alveolar-arterial difference in anesthetized man (Bergman), **28**: 517
tension, cerebrospinal fluid, study (abstract), **22**: 129
tension, skeletal-muscle, and metabolism during induced hypotension and vasopressor administration (Willenkin & Greene), **24**: 168
tension temperature factor (correspondence), **27**: 205
therapy, catheter, mask, hood and tent (review) (Miller), **23**: 445
tissue tension (editorial), **21**: 432
tissue "tension," effects of general anesthetics on (abstract), **24**: 142
toxicity (review) (DuBois), **23**: 473
toxicity in lambs (de Lemos & others), **30**: 609
unusual cause of hypoxia under anesthesia (current comment), **27**: 867
uptake during light halothane anesthesia (Theye & Tuohy), **25**: 627
uptake in cell culture, depression by anesthetics (Fink & others), **30**: 150
utilization by dogs after administration of potassium perchlorate (Tanaka & others), **22**: 20
venous levels during general anesthesia, value of (Theye & Tuohy), **26**: 49
venous saturation (hepatic) and halothane (abstract), **26**: 246
ventilatory response to hypercapnia and hypoxia at normothermia and moderate hypothermia during constant-depth halothane anesthesia (Regan & Eger), **27**: 624

Oxygenation during aortic-valve replacement (Moffit & others), **31**: 310

Oxygenator
and hypothermia, controlled acid-base status with (Carson & Morris), **23**: 618
anesthetic management for cardiopulmonary bypass in community hospital (Pierce & others), **22**: 452
controlled acid-base status with cardiopulmonary bypass and hypothermia (current comment), **24**: 400
extracorporeal circulation and endogenous epinephrine and norepinephrine in plasma, atrium and urine, comparison of ether and halothane anesthesia (Anton & others), **25**: 262
indirect blood pressure measurement during cardiopulmonary bypass (abstract), **21**: 96
influence of anesthetic technique on oxygen consumption during total cardiopulmonary bypass (Underwood & others), **21**: 263
renal function studies during extracorporeal circulation (abstract), **22**: 137

Oxymorphone (Numorphan)
relative respiratory depressant effects of morphine and (Bellville & others), **21**: 397

Oxytocin (Synthetic)
antiarrhythmic and cardiovascular effects of (Katz), **25**: 653

OYAMA, T., SAITO, T., ISOMATSU, T., SAMEJIMA, N., UEMURA, T., and ARIMURA, A., Plasma levels of ACTH and cortisol in man during diethyl ether anesthesia and surgery, **29**: 559

OZER, S., see NGAI, S. H., jt. auth.

OZORIO, H. P. L., Control of abnormal hypertensive response by halothane (current comment), **24**: 885

P

PACE-FLORIDIA, A., and GALINDO, A., Cardiac arrhythmia induced by negative phase in artificial ventilation (clinical workshop), **29**: 382

Pacemakers: see also under Heart
cardiac (correspondence), **28**: 790

PADDOCK, R. B., A simplified technique of topical anesthesia for bronchography (current comment), **26**: 358

——, PARKER, J. W., and GUADAGNI, N. P., The effects of methoxyflurane on renal function (current comment), **25**: 707

PADGET, W. R., see MCLAUGHLIN, D. F., jt. auth.

PAGE, W., see PITTINGER, C., jt. auth.

Pain
analgesia and anti-analgesia (editorial) (Keats), **26**: 1; (correspondence), **26**: 697
analgesia, physiology of epidural (Bromage), **28**: 592
autonomic nervous system and (Haugen), **29**: 785
bizarre phenomena during low spinal anesthesia (de Jong & Cullen), **24**: 628
cause from pneumatic tourniquet during spinal anesthesia (Egbert & Deas), **23**: 287; (current comment), **23**: 881
differentiation of two types by anesthetics (Robson & others), **26**: 31
incidence and prevention of muscle pain following administration of succinylcholine (Lamoreaux & Urbach), **21**: 394
measurement of (abstract), **29**: 209
mechanisms (Lim), **28**: 106
perception and muscle relaxants (editorial), **22**: 314
postoperative, relief and respiratory function in man (Muneyuki & others), **29**: 304
regional anesthesia, assessment of in treatment (Papper), **28**: 1074
relief, analgesic action of propiomazine and morphine (abstract), **23**: 154
relief, clinical and biochemical studies of cyclopropane analgesia in obstetrics (Shnider & others), **24**: 11
relief, comparison of parenteral *d*-propoxyphene and meperidine (Stoelting & others), **23**: 21
relief for labor and delivery, effect on fetus and newborn (review) (James), **21**: 405

XUM

relief on intractable, subarachnoid block with phenol-glycerine for (current comment), **24**: 584
relief, "specific" analgesic effect of trichlorethylene upon trigeminal nerve (Defalque), **22**: 379
respiratory depression associated with relief by narcotics (Keats & Girgis), **29**: 1006
theories, evolution (editorial) (Melzack), **31**: 203
threshold, effect of certain phenothiazine derivatives alone or combined with meperidine, earlobe algesimeter (current comment), **27**: 497
threshold, effects of halothane and methoxyflurane on (Siker & others), **28**: 337
toothpulp thresholds in rabbits, effects of anesthetic agents on (abstract), **21**: 112
tourniquet (current comment), **25**: 247; 248
PALACIOS, N., see PAREDES, R., jt. auth.
PALIOTTA, J., see SAKLAD, M., jt. auth.
PALKO, D. (with DOBKIN, A. B.), The antisialogogue effect of phenothiazine derivatives: comparison of promazine, levomepromazine, trifluoperazine, proclorperazine, methdilazine and prothipendyl, **21**: 260
PALLIN, I. M., see LEAR, E., jt. auth.
Palsy
brachial plexus, mechanism following anesthesia (Jackson & Keats), **26**: 190
Pancreas
cystic fibrosis of, anesthetic experience in children with (Salanitre & others), **25**: 801
PANTER, G. G., see EPSTEIN, R. A., jt. auth.
PAPADOPOULOS, C. N., and KEATS, A. S., Specific and nonspecific antagonism of morphine-induced respiratory depression, **23**: 86
PAPPAS, S. G., see CRANDELL, W. B., jt. auth.
PAPPER, E. M., A matter of definition (editorial), **28**: 969
——, Functional importance of the hepatic circulatory changes induced by anesthesia (editorial), **27**: 4
——, Regional anesthesia. A critical assessment o its place in therapeutics (E. A. Rovenstine Memorial Lecture), **28**: 1074
——, Some reflections on mortality due to anesthesia, **25**: 454
——, The responsibility for breathing (editorial), **22**: 615
——, see BRAND, L., jt. auth.
——, see DOS, S. J., jt. auth.
——, see EPSTEIN, R. M., jt. auth.
——, see GISSEN, A. J., jt. auth.
——, see GREENBERG, C., jt. auth.
——, see KATZ, R. L., jt. auth.
——, see MATTEO, R. S., jt. auth.
——, see PATTERSON, R. W., jt. auth.
——, see SALVATORE, A. J., jt. auth.
——, see SHNIDER, S. M., jt. auth.
Paracelsus
contribution to anesthesia (annals of history) (Gravenstein), **26**: 805
PARADISE, R. R., and BIBBINS, F., Comparison of the effects of equieffective concentrations of anesthetics on the force of contraction of isolated perfused rat hearts: correlation with the equieffective anesthetizing partial pressures, **31**: 349
——, and GRIFFITH, L. K., Control of concentration of volatile agents in open in vitro systems (current comment), **27**: 687
——, and GRIFFITH, L. K., Influence of halothane, chloroform and methoxyflurane on potassium content of rat atria, **26**: 195
——, see KO, K.-C., jt. auth.
Paraplegia
patient, halothane anesthesia in (current comment), **24**: 399
PARASKOS, J. A., see DALEN, J. E., jt. auth.
Parasympathomimetic
activity of atropine and atropine methylbromide (Kottmeier & Gravenstein), **29**: 1125
Parathyroid: see under Endocrine Function, hyper- and hypoparathyroidism
PAREDES, R., ZAPATA, A., PALACIOS, N., and TEJADA, V., The calibration of anesthetic vaporizers by infrared spectroscopy (current comment), **26**: 107
PAREIRA, M. D., see SERKS, K. D., jt. auth.
Parents
children and hospitals (Smith), **25**: 461
PARKER, J. W., see PADDOCK, R. B., jt. auth.
PARKHOUSE, J., see HENRIE, J. R., jt. auth.
PARKS, C. R., and KENNEDY, W. F., JR., Obturator nerve block: A simplified approach (clinical workshop), **28**: 775
——, see CALE, J. O., jt. auth.
PARMENTIER, P., see HORNBEIN, T. F., jt. auth.
PARMLEY, R. T., Service through self-sacrifice (editorial), **22**: 616
Parotitis
postoperative (Lorhan & others), **23**: 659
PARRY, W. L., see SLATER, E. M., jt. auth.
Partition Coefficient
blood/gas, of divinyl ether (current comment), **25**: 406
PASK, E. A. (participant-panel discussion), What is the significance of hypercarbia or hypocarbia in the anesthetized patient? **21**: 759
PASKIN, S., SKOVSTED, P., and SMITH, T. C., Failure of the Hering-Breuer reflex to account for tachypnea in anesthetized man: A survey of halothane, fluroxene, methoxyflurane, and cyclopropane, **29**: 550
Pathology
changes in spinal cord following subarachnoid alcohol block (abstract), **21**: 104
microscopic study of dog brain, effects of electronarcosis (Smith & others), **22**: 970
Pathology Panel: see under National Halothane Study
Patient consent (correspondence) (Beecher), **29**: 602; (Dripps), **29**: 603
PATRICK, R. T., The hazards of anesthesia for diagnostic procedures (Editorial), **21**: 553

——, and DEVLOO, R. A., Embolic phenomena of the operative and postoperative period (review), **22**: 751
PATTERSON, J. F., ADAMS, J. G., JR., and JOHNSON, C. G., Flammability of fluroxene (current comment), **26**: 825
PATTERSON, R. W., SULLIVAN, S. F., MALM, J. R., BOWMAN, F. O., JR., and PAPPER, E. M., The effect of halothane on human airway mechanics, **29**: 900
——, see SULLIVAN, S. F., jt. auth.
PEARCY, W. C., (current comment), **22**: 318
——, Circulatory and electroencephalographic effects of extreme ether anesthesia in dogs, **23**: 605
——, and VIRTUE, R. W., Multichannel electroencephalography in hypothermia and circulatory occlusion, **21**: 35
——, see VIRTUE, R. W., jt. auth.
PEARSON, J. W., and DEKORNFELD, T. J., Effect of methotrimeprazine on respiration, **24**: 38
——, and REDDING, J. S., Equipment for respiratory resuscitation (current comment), **24**: 739; **25**: 858
——, and REDDING, J. S., Evaluation of the Elder Demand Valve Resuscitator for use by first-aid personnel, **28**: 623
——, see REDDING, J. S., jt. auth.
PEARSON, O. H., Endocrine consequences of hypophysectomy (review), **24**: 563
PECHET, L., and GLASER, B., Problems of the hemophiliac during surgical treatment (review), **27**: 399
PECK, G. E., see HAMLOW, E. E., jt. auth.
PEDERSON, H., see HYMAN, A. I., jt. auth.
Pediatric Anesthesia: see Anesthesia, pediatric; also under Children, Infants (Salanitre & Rackow), **30**: 388
  age and halothane requirement (Gregory & others), **30**: 488
Pediatric anesthesiology (review) (Rackow & Salanitre), **30**: 208
Pediatrics: see also Children, Infants
  axillary block and sedation for cardiac catheterization (clinical workshop), **28**: 936
  gastric aspiration in a comatose child (clinical workshop), **31**: 478
  halothane ED50 in children (Nicodemus & others), **31**: 344
  pediatric circle valve (clinical workshop), **29**: 833
  pediatric endotracheal tube, factors affecting size (clinical workshop), **28**: 779
PEGG, J., Convenient flows using flow-metered vaporizers (current comment), **26**: 683
PEMBLETON, W. E., see SANCHEZ-SALAZAR, A. A., jt. auth.
PENDER, J. W., Audio education (Editorial), **21**: 81
——, *Briefs from the Literature* (Editorial), **21**: 767
——, Postgraduate education (editorial), **23**: 577
——, Teratogenicity (editorial), **24**: 268
——, Unjustified distractions (editorial), **23**: 265
——, see ASKROG, V. F., jt. auth.
PENG, T. C., and LIN, R. C., Pediatric reference card (current comment), **27**: 864
PENNINCKX, J., see SAFAR, P., jt. auth.
PENNINGTON, S. N., The effects of gamma radiation on halothane (clinical workshop), **29**: 153
Pentazocine (Win 20, 228)
  circulatory and respiratory response to tilt with (abstract), **26**: 253
Penthrane: see Methoxyflurane
Pentobarbital (Nembutal)
  anesthesia, potentiation by competitive protein binding (Lasser & others), **24**: 665
  cardiovascular effects of sedative doses (Andersen & Gravenstein), **27**: 272
  comparison of various drug combinations as pediatric preanesthetic medication (Eger & others), **22**: 962
  double-blind study (Elliott & others), **31**: 233
  interaction with lidocaine, effects on toxicity in mice and guinea pig atria (Richards & others), **29**: 493
Pentothal: see Thiopental
Pentylenetetrazol, convulsant doses in the cat (Tuttle & Elliott), **30**: 48
Peptides
  pharmacologically active (review) (Ungar), **27**: 539
PEREL, J. M., see MARK, L. C., jt. auth.
PEREZ-ZAMORA, P., see ERNST, E. A., jt. auth.
Peridural Anesthesia: see Anesthesia, peridural
Peripheral Nerve Block
  by local anesthetics, physiological mechanisms of (review) (de Jong & Wagman), **24**: 684
Peripheral resistance, nomogram for estimation (clinical workshop), **30**: 569
Peripheral Vascular Circulation: see under Blood circulation
Peripheral Vascular Resistance
  halothane and respiratory acidosis (abstract), **27**: 225
PERKINS, H. A., Postoperative coagulation defects (review), **27**: 456
PERKINS, H. M., see GRAVENSTEIN, J. S., jt. auth.
PERMUTT, S., see VIRTUE, R. W., jt. auth.
PERRY, L. B., MEYER, J. A., JENICEK, J. A., and GOLDBAUM, L. R., Effect of irradiation on anesthetic agents (current comment), **26**: 106
PESLIN, R. L., The physical properties of ventilators in the inspiratory phase (technical study), **30**: 315
PETTY, W. C., HEGGERS, J. P., SHELTON, D. F., and MENDENHALL, M. K., Viral and bacterial contamination of multiple-dose drug vials kept in anesthesia machines (clinical workshop), **30**: 465
*p*H: see also under Acid-base balance, Acidosis, Alkalosis
  blood and plasma levels of *d*-tubocurarine (Cohen & others), **26**: 727
  effect on activity of topical anesthetics (abstract), **26**: 266
  of local anesthetic solutions containing epinephrine (de Jong & Cullen), **24**: 801

role in development of tachyphylaxis to local anesthetic agents (Cohen & others), **29**: 994
Phantom Limb
sensations during spinal anesthesia (Prevoznik & Eckenhoff), **25**: 767
(editorial), **25**: 742
Pharmacogenetics
and anesthesia (review) (Kalow), **25**: 377
Pharmacology
drugs employed in anesthesia, metabolism of (Greene), **29**: 127, 327
of ganglionic actions of general anesthetics (Garfield & others), **29**: 79
Pharynx
x-ray studies of in upper airway problems in resuscitation (Ruben & others), **22**: 271
PHEAR, W. P. C., see GOLDBERG, A. H., jt. auth.
PHELPS, J. A., Laryngeal obstruction due to cricoarytenoid arthritis (current comment), **27**: 518
Phenampromid
clinical evaluation (DeKornfeld & Lasagna), **21**: 159
Phenazocine (Prinadol)
antidiuretic effect of (Calesnick & Milligan), **23**: 81
clinical evaluation (DeKornfeld & Lasagna), **21**: 159
comparison of effects on respiration with meperidine (Greisheimer & others), **21**: 370
respiratory effects of (abstract), **21**: 90
Phenergan: see also Promethazine
artificial, device for (current comment), **22**: 495
assessment of Revell circulator (Roffey & others), **22**: 583
central control of, wakefulness-associated factor in (abstract), **22**: 134
central nervous system effects of hyperventilation during anesthesia (abstract), **22**: 128
chemosensitivity of area postrema in fourth ventricle (abstract), **22**: 137
complications with muscle relaxants in infants (Salanitre & Rackow), **22**: 194; (current comment), **22**: 852
cyclic variations in blood oxygenation with (Bergman), **22**: 900
effect of hyperventilation on arterial oxygen saturation (Downes & others), **22**: 29
effect of methoxyflurane (abstract), **22**: 143
effect of variations in lung volume and alveolar gas composition on rate of fall of oxygen saturation during apnea (abstract), **22**: 128
effects of methoxyflurane and halothane in dogs (Dobkin & Fedoruk), **22**: 355
effects of methoxyflurane in dogs (abstract), **22**: 138
effects of resistance to breathing in anesthetized man (Nunn & Ezi-Ashi), **22**: 174
effects of surgical pneumothorax on pulmonary ventilation (Bonica & others), **22**: 955
function of infants during anesthesia (abstract), **22**: 140
humidification of inspired air (abstract), **22**: 134
hypercapnic acidosis, effects of THAM, mannitol, and urea on intracranial hypertension of (abstract), **22**: 134
inadequate postanesthetic ventilation (review) (Dam & Guldmann), **22**: 699
"lost gas" in pressure breathing anesthesia (abstract), **22**: 141
need for ventilation during closed chest cardiac massage (current comment), **22**: 636
rate of rise of P_{ACO_2} in apneic anesthetized patient (Eger & Severinghaus), **22**: 419
responsibility for breathing (editorial), **22**: 615
spontaneous readjustments in acid-base balance at termination of prolonged hyperventilation (abstract), **22**: 130
threshold for carbon dioxide in anesthetized man (Hanks & others), **22**: 393
universal breathing tube support (current comment), **22**: 844
ventilator techniques of anesthesia for neurosurgery (abstract), **22**: 143
water loss via anesthesia system, mask breathing (Chase & others), **22**: 205
Phenol
dilute solution, brachial plexus infiltration in management of upper extremity spasticity (current comment), **27**: 87
solution (dilute) in treatment of spasticity, peripheral nerve block with (abstract), **26**: 254
Phenol-Glycerine
subarachnoid block with, for relief of intractable pain (current comment), **24**: 584
Phenothiazine
derivatives: see also under specific drugs
derivatives alone or combined with meperidine, effect on pain threshold, earlobe algesimeter (current comment), **27**: 497
derivatives and analogues, potentiation of thiopental by (Dobkin), **21**: 292
derivatives, antisialogogue effect of (Dobkin & Palko), **21**: 260
Phenoxybenzamine
in therapy of intestinal ischemic shock (Hershey & others), **29**: 466
methyoxyflurane and in anesthetic management of pheochromocytoma (Crout & Brown), **30**: 29
Phentanyl
respiratory depressant effects of (abstract), **27**: 213
Phentolamine
effect on circulatory responses to endotracheal intubation in light general anesthesia (DeVault & others), **21**: 360
2-Phenylalanine-8-Lysine Vasopressin: see PLV-2
Phenylephrine
cutaneous slough after extravasation of (current comment), **23**: 587
effect on survival and acid-base balance in dogs with acute hemorrhagic hypotension (Loehning & others), **21**: 363

effect on survival and acid-base balance in dogs with acute hemorrhagic hypotension on constant volume ventilation (abstract), **21**: 107
effects on baroreflex control of heart rate (Bristow & others), **31**: 422
Pheochromocytoma
anesthetic management (Crout & Brown), **30**: 29
arrhythmias associated with succinylcholine in a patient with (clinical workshop), **29**: 1228
diagnosis and anesthetic and surgical management (review) (Goldfein), **24**: 462
halothane and beta-adrenergic blockade in management of (Cooperman & others), **28**: 575
halothane anesthesia and catecholamine levels in patient with (current comment), **26**: 688
PHILLIPS, O. C., Impurity of stored halothane (current comment), **26**: 104
——, EBNER, H., NELSON, A. T., and BLACK, M. H., Neurologic complications following spinal anesthesia with lidocaine: a prospective review of 10,440 cases, **30**: 284
——, and HULKA, J. F., Obstetric mortality (review), **26**: 435
——, see CAPIZZI, L. S., jt. auth.
Phlebitis
from plastic intravenous catheters (Cheney & Lincoln), **25**: 650; (abstract), **25**: 92
Photosphygmometer
blood pressure determination in newborn with (Williams & Eastwood), **22**: 237
Phrenic nerve-diaphragm preparation, effects of germine diacetate on (Foldes & others), **31**: 522
Physicians
and malpractice suits (editorial), **22**: 1007
Physiologic Shunting: see under Respiration; Shunt
Physiology: see also under specific body systems and organs
bodily reactions to high temperature (Wakim), **25**: 532
high altitude in relation to anesthesia and inhalation therapy (Safar & Tenicela), **25**: 515
reactions during profound hypothermia with cardioplegia (Stephen & others), **22**: 873
PICKERING, T. G., see BRISTOW, J. D., jt. auth.
PIERCE, C. C., JR., Cerebral blood flow and uptake of anesthetics (editorial), **25**: 1
——, and VANDAM, L. D., Intermittent positive pressure breathing (review), **23**: 478
——, see DEUTSCH, S., jt. auth.
PIERCE, J. A., TRIFARI, L. M., GAROFALO, M. L., GOLIA, U. V., D'ELIA, P. F., and KAZANJIAN, N. A., Anesthetic management for cardiopulmonary bypass in a community hospital, **22**: 452
PITTINGER, C. B. with BORGMAN, R. L.; WALKER, T. R., and LONG, J. P.), Effects of barbiturates on skeletel muscle function, **21**: 150
——, MITCHELL, C., ALEU, F., and PAGE, W., Convulsive phenomena in hyperthermic dogs during anesthesia, **22**: 893
——, see MARSHALL, F. N., jt. auth.
Pituitary
blockade by meperidine (Han & Brown), **22**: 909
Placenta
circulation and uterine blood flow (review) (Martin), **26**: 447
gas transfer (review) (Metcalfe), **26**: 460
homogenates, hydrolysis of succinylcholine by (Moya & Margolies), **22**: 11
threshold to succinylcholine (Kvisselgaard & Moya), **22**: 7
transfer of drugs used in anesthesia (review) (Marx), **22**: 294
transfer of thiobarbiturates (Kosaka & others), **31**: 489
transmission of mepivacaine hydrochloride across human (Morishima & others), **27**: 147
transmission of succinylcholine (Moya & Kvisselgaard), **22**: 1; (abstract), **21**: 110
uptake, distribution and transport of drugs and anesthetics (review) (Moya & Smith), **26**: 465
Plasma: see also under Blood
cholinesterase atypical, method for recognition of (abstract), **29**: 211
expanders, acute hemodilution with (abstract), **26**: 261
expanders, effects on blood viscosity (Boyan & others), **27**: 279; (abstract), **27**: 208
expanders, presently useful (review) (Kliman), **27**: 417
extracorporeal circulation and endogenous epinephrine and norepinephrine in, comparison of ether and halothane anesthesia (Anton & others), **25**: 262
lidocaine, concentrations after caudal, lumbar epidural, axillay block, and intravenous regional anesthesia (Mazze & Dunbar), **27**: 574
d-tubocurarine levels and blood *p*H (Cohen & others), **26**: 727
volume changes in open-heart surgery (abstract), **21**: 107
volume, measurement with radioisotope tracers (abstract), **23**: 138
Plastics
methoxyflurane solubility in (current comment), **26**: 828
solubility in halothane (Eger & others), **23**: 356
Platelet
transfusions (review) (Zucker & Lundberg), **27**: 385
Plethysmography: see Impedance Plethysmography
PLOSS, R. E., (current comment), **22**: 642, 643
——, BARBEE, W. H., and LIDWINA, M., (current comment), **23**: 395
——, see PLOSS, W. R., jt. auth.
PLOSS, W. R., An acoustic switch for use in constant monitoring (clinical workshop), **29**: 1052
——, and PLOSS, R. E., A practical stethoscope approximator (letter to editor of clinical workshop), **30**: 334
PLUMLEE, J. E., see EGGERS, G. W. N., jt. auth.
PLV-2 (2-Phenylalanine-8-Lysine Vasopressin)
cardiac rhythm and local vasoconstrictor effects (Katz), **26**: 619

in therapy of intestinal ischemic shock (Hershey & others), **29**: 466
Pneumatic Tourniquet
cause of pain from during spinal anesthesia (Egbert & Deas), **23**: 287; (current comment), **23**: 881
Pneumoencephalography
under nitrous oxide anesthesia, charges in cerebrospinal fluid pressure (Saidman & Eger), **26**: 67
Pneumonitis
aspiration, therapeutic aspects of, in experimental animals (Bannister & others), **22**: 440
chemical, of aspiration, evaluation of treatment (Lewinski), **26**: 37
Pneumothorax
hazards of nitrous oxide anesthesia in (Eger & Saidman), **26**: 61
open, circulatory changes due, in surgical patients (Li & others), **21**: 171
postoperative complications (review) (Hamilton), **22**: 708
spontaneous bilateral in newborn (clinical workshop), **28**: 629
surgical, effects on pulmonary ventilation (Bonica & others), **22**: 955
PODLESCH, I., DUDZIAK, R., and ZINGANELL, K., Inspiratory and expiratory carbon dioxide concentrations, during halothane anesthesia in infants, **27**: 823
POE, M. F., DORNETTE, W. H. L., and JOHNSON, C. H., Clinical observations on the intrathecal use of mepivacaine, **23**: 678
——, and MAYFIELD, J. R., Clinical experience with chloroform anesthesia, **21**: 508
Poem (Lamdin), **30**: 2
Poisoning: see also Toxicity
barbiturate, analeptics outmoded therapy of (editorial), **23**: 713
Polarography: see under Oxygen
POLLAK, H., (current comment), **23**: 131
Pollution
air, and disease (Ferris & Frank), **25**: 470
Polypeptides
and cardiac arrhythmias (abstract), **25**: 104
PONTOPPIDAN, H., see BERRY, P. R., jt. auth.
——, see GEFFIN, B., jt. auth.
——, see HEDLEY-WHYTE, J. jt. auth.
——, see SUWA, K., jt. auth.
PONTREMOLI, M., see USUBIAGA, J. E., jt. auth.
POPE, F. S., see MARCUS, P. S., jt. auth.
POPPERS, P. J., and FINSTER, M., The use of prilocaine hydrochloride (Citanest®) for epidural analgesia in obstetrics, **29**: 1134
——, see MORISHIMA, H. O., jt. auth.
Porphyria
and relation to anesthesia (medical intelligence) (Ward), **26**: 212
and thiopental (correspondence), **27**: 703
PORTER, W. E., The anesthesiologist's view of himself and his specialty, **25**: 436
——, see SWEIGERT, R. L., jt. auth.
Positioning
prone patient, device for (current comment), **25**: 87
Positive Pressure Breathing: see under Respiration
Postoperative: see under Anesthesia; Surgery
Posture
effect on anatomic dead space before and after atropine (abstract), **27**: 224
Potassium
content of rat atria, influence of halothane, chloroform and methoxyflurance on (Paradise & Griffith), **26**: 195
content of rat atria, influence of inhalation anesthetics on (abstract), **25**: 106
infusion in dogs, hemodynamic effects (Smith & Corbascio), **26**: 633
levels, acid-base balance and massive blood replacement (Schweizer & Howland), **23**: 735
role in cyclopropane-epinephrine ventricular tachycardia (Davis & others), **25**: 54
Potassium Perchlorate
oxygen utilization by dogs after administration of (Tanaka & others), **22**: 20
Potassium Superoxide
as oxygen source during resuscitation (abstract), **24**: 125
Potency, anesthetic, H-reflex as measure (Freund & others), **30**: 642
Potentiation
of meperdine by promethazine (Keats & others), **22**: 34
POTTER, G. J., (current comment), **23**: 395
——, Aids for intravenous medication (current comment), **24**: 116
——, Clamp for holding suction tip and hose (current comment), **25**: 572
——, Device for suction and oxygen administration (current comment), **24**: 876
POUTASSE, E. F., see MORACA, P. P., jt. auth.
POWELL, W. F., Anesthesia data sheet (current comment), **25**: 394
——, Multi-purpose syringe and manometer holder (current comment), **24**: 397
——, V-tube for manual assisted ventilation (current comment), **25**: 859
PRATT, E. L., WARRINGTON, H. P., and GREGO, J., The gas chromatographic determination of mepivacaine in blood, with a note on other local anesthetics, **28**: 432
Preanesthetic Medication: see also under Anesthesia; Surgery; names of specific agents and compounds
amitriptyline as agent for (current comment), **26**: 571
ataraxic drugs in (Lear & others), **22**: 525
comparison of various drug combinations as pediatric (Eger & others), **22**: 962
dose-effect study in children (Rackow & Salanitre), **23**: 747
effects on endocrine response to injury (review) (Van Brunt & Ganong), **24**: 500
effects on respiration and gas exchange (Smith & others), **28**: 883

effects on visually evoked responses (Domino), **28**: 184
evaluation (abstract), **23**: 141
evaluation with galvanic skin response (abstract), **25**: 110
in infants and children utilizing tranquilizers and newer narcotics (abstract), **22**: 142
meperidine and propiomazine (current comment), **22**: 1013
method for measuring cerebral effects of visually evoked responses (Corssen & Domino), **25**: 330
narcotic, effect of nitrous oxide and, on alveolar concentration of halothane required for anesthesia (Saidman & Eger), **25**: 302
oral, of children with 4-hydroxybutyrate (abstract), **26**: 259
role in modifying the hypersynchronous electrical waves in rhinencephalic structures induced with inhalation anesthetics (abstract), **22**: 133
schema for dosage for children (current comment), **25**: 398
synergistic and antagonistic effects on general anesthesia in mice (Carson & Domino), **23**: 187
untoward effects of certain drug combinations (abstract), **26**: 256
use of psychogalvanic reflexes in evaluation of drugs (abstract), **22**: 130
Preanesthetic Preparation: see under Anesthesia
Preanesthetic Visit
(editorial), **22**: 486
Pregnancy: see also under Obstetrics
changes in blood volume during (review) (Pritchard), **26**: 393
respiratory and acid-base changes during (review) (Prowse & Gaensler), **26**: 381
serum cholinesterase activity during (abstract), 260; (Shnider), **26**: 335
water and electrolyte balance during (review) (Little), **26**: 400
Premedication: see Preanesthetic Medication; also under Anesthesia; Surgery; names of specific agents and compounds
Preoperative: see under Anesthesia; Surgery
Preoperative Medication: see Preanesthetic Medication
PRESCOTT, E. J., see MISRAHY, G. A., jt. auth.
Pressor Drugs: see Vasopressor, drugs
Pressure
atmospheric, oxygen utilization by dogs after administration of potassium perchlorate at pressure of 2 atmospheres (Tanaka & others), **22**: 20
Pressure Chamber: see under Oxygen, hyperbaric
PREVOZNIK, S. J., Improved intravenous infusion set (letter to editor, clinical workshop), **29**: 385
——, and ECKENHOFF, J. E., Phantom sensations during spinal anesthesia, **25**: 767
PRICE, H. L., A dynamic concept of the distribution of thiopental in the human body, **21**: 40
——, Association of University Anesthetists (report of meeting), **28**: 955
——, Circulatory isolation of the head (current comment), **25**: 728
——, Concerning experimental results (commentary), **29**: 57
——, Effect of cyclopropane on myocardial contraction and membrane potentials (current comment), **24**: 256
——, Effects of carbon dioxide on the cardiovascular system (review), **21**: 652
—— (with JONES, R. E., and others), Cyclopropane anesthesia. III. Effects of cyclopropane on respiration and circulation in normal man, **21**: 380
——, COOK, W. A., JR., DEUTSCH, S., LINDE, H. W., MISHALOVE, R. D., and MORSE, H. T.: Hemodynamic and central nervous actions of cyclopropane in the dog, **24**: 1
——, COOPERMAN, L. H., WARDEN, J. C., MORRIS, J. J., and SMITH, T. C., Pulmonary hemodynamics during general anesthesia in man, **30**: 629
——, DEUTSCH, S., COOPERMAN, L. H., CLEMENT, A. J., and EPSTEIN, R. M., Splanchnic circulation during cyclopropane anesthesia in normal man, **26**: 312
——, DEUTSCH, S., DAVIDSON, I. A., CLEMENT, A. J., BEHAR, M. G., and EPSTEIN, R. M., Can general anesthetics produce splanchnic visceral hypoxia by reducing regional blood flow? **27**: 24
——, LINDE, H. W., and MORSE, H. T., Central nervous actions of halothane affecting the systemic circulation, **24**: 770
——, and PRICE, M. L., Has halothane a predominant circulatory action?, **27**: 764
——, and PRICE, M. L., Relative ganglion-blocking potencies of cyclopropane, halothane and nitrous oxide, and the interaction of nitrous oxide with halothane, **28**: 349
——, PRICE, M. L., and MORSE, H. T., Effects of cyclopropane halothane and procaine on the vasomotor "center" of the dog, **26**: 55
——, WARDEN, J. C., COOPERMAN, L. H., and MILLAR, R. A., Central sympathetic excitation caused by cyclopropane, **30**: 426
——, WARDEN, J. C., COOPERMAN, L. H., and PRICE, M. L., Enhancement by cyclopropane and halothane of heart rate responses to sympathetic stimulation, **29**: 478
——, see COOPERMAN, L. H., jt. auth.
——, see DEUTSCH, S., jt. auth.
——, see EPSTEIN, R. M., jt. auth.
——, see JONES, R. E., jt. auth.
——, see LONG, G., jt. auth.
——, see MORSE, H. T., jt. auth.
——, see PRICE, M. L., jt. auth.
——, see SECHZER, P. H., jt. auth.
——, see SKOVSTED, P., jt. auth.
PRICE, M. L., and PRICE, H. L., Effects of general anesthetics on contractile responses of rabbit aortic strips, **23**: 16

——, see PRICE, H. L., jt. auth.
——, see SKOVSTED, P., jt. auth.
PRICE, W. M., see HEMINGWAY, A., jt. auth.
Prilocaine
determination in whole blood by gas chromatography (Keenaghan), **29**: 110
fetal arrhythmia during caudal block with (current comment), **28**: 222
for epidural analgesia in obstetrics (Poppers & Finster), **29**: 1134
methemoglobin formation following intravenous injection (Harris & others), **29**: 65
passage across placenta (abstract), **28**: 246
PRIMAN, J., and ETTER, L. E., Significance of variations of the skull in blocking the maxillary nerve—an anatomical and radiological study, **22**: 42
Prinadol: see Phenazocine
PRINCE, D. A., see WAGMAN, I. H., jt. auth.
PRITCHARD, J. A., Changes in the blood volume during pregnancy and delivery (review), **26**: 393
Procaine
distribution in human blood: relation to potentiation of succinylcholine (laboratory notes) (Salgado), **29**: 1040
effects on vasomotor "center" of dog (Price & others), **25**: 55
metabolism in cerebrospinal fluid contaminated with blood (current comment), **25**: 563; correction, **25**: 876
potentiation of succinylcholine by (Salgado), **22**: 897
systemic absorption of, following submucosal injection (abstract), **24**: 138
toxicity of intravenous (current comment), **25**: 249
Proclorperazine (Compazine, Stemetil)
antisialogogue effect of (Dobkin & Palko), **21**: 260
PROCTOR, D. F., Anesthesia for peroral endoscopy and bronchography (review), **29**: 1025
Promazine (Sparine)
antisialogogue effect of (Dobkin & Palko), **21**: 260
Promethazine (Phenergan)
potentiation of meperdine by (Keats & others), **22**: 34
thrombophlebitis with (current comment), **21**: 568
Prone Position: see under Surgery
Pronethalol
clinical experience with (Krasnow & Barbarosh), **29**: 814
neuromuscular effects and interaction with muscle relaxants (Usubiaga), **29**: 484
Propiomazine (Largon)
analgesic action of (abstract), **23**: 154
and meperidine for preanesthetic medication (current comment), **22**: 1013
double-blind study (Elliott & others), **21**: 233
effect on respiration and circulation (Markello & King), **27**: 20
Propitocaine (Citanest)
and methemoglobinemia (current comment), **26**: 569
d-Propoxyphene
parenteral, comparison of analgesic and side effects with meperidine (Stoelting & others), **23**: 21
Propanolol
clinical experience with (Krasnow & Barbarosh), **29**: 814
effects on cardiovascular response to cyclopropane and halothane (Craythorne & Huffington), **27**: 580
effects on epinephrine-induced arrhythmias during halothane anesthesia (abstract), **29**: 199
metabolic effects of beta-adrenergic blockade with (abstract), **28**: 263
neuromuscular effects and interaction with muscle relaxants (Usubiaga), **29**: 484
Prostate
resection, fluid absorption during (abstract), **23**: 152
Prosthesis
cardiac, in bovine animals, anesthesia for placement of (abstract), **28**: 270
Protein: see also under Cerebrospinal Fluid; Plasma
binding of anesthetic molecules (editorial), **24**: 607
cerebrospinal fluid and spinal anesthesia in obstetrics (Marx & Orkin), **26**: 340
competititve binding, potentiation of pentobarbital anesthesia by (Lasser & others), **24**: 665
-deficient mice, effects of halothane on liver in (abstract), **22**: 131
interactions of inert anesthetic gases with (Featherstone & others), **22**: 977
plasma, cryproteinemia and hyperheparin states, role in bleeding during and after hypothermic operation (abstract), **24**: 141
Prothipendyl (Timovan)
antisialogogue effect of (Dobkin & Palko), **21**: 260
PROWSE, C. M., and GAENSLER, E. A., Respiratory and acid-base changes during pregnancy (review), **26**: 381
PRYSE-DAVIES, J., see TAYLOR, G., jt. auth.
PRYS-ROBERTS, C., see BRISTOW, J. D., jt. auth.
——, see GREENBAUM, R., jt. auth.
——, see KELMAN, G. R., jt. auth.
Psychiatric aspects of patient care in hospitals (symposium article) (Kornfeld), **31**: 166
Psychiatric patients
mechanical aid for positioning during anesthesia (current comment), **28**: 464
Psychiatry
use of anesthetic agents in (Nagle), **24**: 91
Psychogalvanic Reflex
use in evaluation of drugs for premedication (abstract), **22**: 130
Psychological tests of human mental function after cyclopropane (James), **30**: 264
Psychology
tests, alteration of human consciousness by nitrous oxide as assessed by electroencephalography and (Henrie & others), **22**: 247

Puerperium
serum cholinesterase activity during (abstract), **26**: 260; (Shnider), **26**: 335
Pulmonary: see under Lungs; Respiration
Pulmonator
infant, adaptation of (current comment), **25**: 574
Pulse
rate and blood pressure, effects of endotracheal intubation on (Wycoff), **21**: 153
rate and rhythm changes associated with use of succinylcholine in anesthetized children (Craythorne & others), **21**: 465
rate changes in elderly patients during hypotension (clinical workshop), **30**: 328
PURCHASE, I. F. H., Circulatory isolation of the head (current comment), **25**: 728
Purkinje fibers, see under Heart
Pyridostigmin
as antagonist of *d*-tubocurarine (Katz), **28**: 528
Pyruvate
effect on contractility of halothane-depressed atria (Ko & Paradise), **31**: 532
lactate, and excess lactate production in anesthetized man (Greene), **22**: 404

Q

QUESADA, R. S., see THEYE, R. A., jt. auth.
Quinidine
potentiation of muscle relaxants by (correspondence) (Usubiaga; Miller, Way, and Katzung) **29**: 1068
potentiation of neuromuscular blocking agents (Miller & others), **28**: 1036

R

RACKOW, H., (current comment), **22**: 852
——, Pulmonary function in the normal infant (editorial), **25**: 593
——, and SALANITRE, E., A dose-effect study of preoperative medication in children, **23**: 747
——, and SALANITRE, E., A new pediatric circle valve (clinical workship), **29**: 833
——, and SALANITRE, E., Modern concepts in pediatric anesthesiology (review), **30**: 208
——, SALANITRE, E., and LEE, A. S. J., (current comment), **23**: 129
——, SALANITRE, E., WOLF, G. L., Quantitative analysis of diethyl ether in blood. Blood/gas distribution coefficient of diethyl ether (laboratory methods), **27**: 829
——, see EPSTEIN, R. M., jt. auth.
——, see SALANITRE, E., jt. auth.
RADFORD, E. P., JR., see LITTLE, J. B., jt. auth.
Radiation
effects of anesthesia on irradiated animals (Young & others), **23**: 74
effects of ionizing, and importance in anesthesiology (Little & Radford), **25**: 479
exposure (current comment), **23**: 267
gamma, effects on halothane (clinical workshop), **29**: 153
hazard to anesthetists (Linde & Bruce), **30**: 363
protection (current comment), **22**: 1019
response of radiated animals to anesthetics (abstract), **21**: 119
Radiation Therapy
anesthesia by remote control during (current comment), **24**: 112
RADICE, A., see ALBERT, S. N., jt. auth.
Radio
telemetry in patient monitoring (current comment), **22**: 1010
Radioactive labeled succinyl*di*choline and succinyl-*mono*choline, kinetics of distribution (Dal Santo), **29**: 435
Radioactive tracers
simultaneous measurement of erythrocyte, plasma and extracellular fluid volumes with (Albert & others), **29**: 908
use of whole-body autoradiography to determine in rat (Cohen & others), **29**: 987
Radiography in celiac plexus block (clinical workshop), **31**: 373
Radioiodinated Serum Albumin (RISA)
use to confirm accidental intravascular insertion of epidural catheters (current comment), **25**: 564; correction, **25**: 876
Radioisotope Tracers
Fe-59 and Cr-51 for simultaneous measurement of plasma and red cell volume and index of erythropoieses (abstract), **23**: 138
Radiology in the hospital (symposium article) (Samuel), **31**: 137
RAHN, H. (with FARHI, L. E.), Dynamics of changes in carbon dioxide stores (Review), **21**: 604
RATTENBORG, C. C., see HOLADAY, D. A., jt. auth.
——, see KRISTOFFERSEN, M. B., jt. auth.
——, see MATZ, G. J., jt. auth.
——, see SALEM, M. R., jt. auth.
Rauwolfia: see also under Reserpine
more light on (editorial), **25**: 122
surgery and anesthesia (Katz & others), **25**: 142
RAVIN, M. B., Anesthetic management of Wiskott-Aldrich syndrome (current comment), **27**: 199
——, Influence of gas velocities and concentrations on match-blowing-out time (current comment), **25**: 392
——, The match test as an aid to preoperative pulmonary evaluation (current comment), **25**: 391
——, GARBER, V., and GIBSON, E. L., Intravascular hemolysis following urea administration during hypothermia (current comment), **25**: 576
——, and SCHWARTZ, H., (current comment), **23**: 269
——, see MATTEO, R. S., jt. auth.
RAVIN, M. D., see FEINBERG, G. L., jt. auth.
RAYMOND, L. W., and STANDAERT, F. G., The respiratory effects of carbon dioxide in the cat, **28**: 974
Rebreathing tube, see Apparatus and equipment
Records: see also Charts
anesthesia data sheet (current comment), **25**: 294
anesthetic, computer-oriented system (clinical workshop), **29**: 595
anesthetic, computer program for analysis (clinical workshop), **30**: 565

Recovery
times of dogs after fluorinated anesthetic agents (current comment), **26**: 102
Recovery Room
and intensive care unit, design of (Wiklund), **26**: 667
as clinical laboratory (Howland & others), **21**: 251
postoperative ventilation studies in (abstract), **21**: 109
Rectum
skeletal muscle and esophageal temperatures during general anesthesia and operation (Wollman & Cannard), **21**: 476
Red Cells: see under Blood; Cells
Redding, J. S., and Cozine, R. A., A comparison of open-chest and closed-chest cardiac massage in dogs, **22**: 280
——, and Pearson, J. W., Evaluation of drugs for cardiac resuscitation, **24**: 203
——, see Pearson, J. W., jt. auth.
Reeser, F. J., Jr., see Hall, K. D., jt. auth.
Reflexes
inhibition, abdominal, hyperventilation and, in rat (Downes), **24**: 615
knee jerk, for evaluating effectiveness of sciatic nerve block (current comment), **27**: 690
oculo-cardiac, prevention in children: comparison of retrobulbar block and intravenous atropine (Taylor & others), **24**: 646
somatic, and neuromuscular transmission, effects of anesthetics on (Ngai & others), **26**: 162
spinal, effect of methoxyflurane (abstract), **23**: 158
Refractory period, neuromuscular, of anesthetized man, effects of nondepolarizing relaxants and anticholinesterases (Epstein & others), **31**: 69
Refsum's Disease
(current comment), **23**: 269
Regan, M. J., and Eger, E. I., II, Effect of hypothermia in dogs on anesthetizing and apneic doses of inhalation agents. Determination of the anesthetic index (apnea/MAC), **28**: 689
——, and Eger, E. I., II, Ventilatory response to hypercapnia and hypoxia at normothermia and moderate hypothermia during constant-depth halothane anesthesia, **27**: 624
——, see Eger, E. I., III, jt. auth.
——, see Munson, E. S., jt. auth.
Regional Anesthesia: see Anesthesia, regional
Rehder, K., Forbes, J., Alter, H., Hessler, O., and Stier, A., Halothane bitransformation in man: A quantitative study, **28**: 711
——, see Hessler, O., jt. auth.
——, see Michenfelder, J. D., jt. auth.
——, see Theye, R. A., jt. auth.
Reichenberg, S., see Gold, M. I., jt. auth.
Reid, D. E., An obstetrician's view of anesthesiology (editorial), **26**: 377
——, Anesthesiology and obstetrics (correspondence), **27**: 101
Reier, R. E., and Wu, W., Intragastric cyclopropane—a potential explosion hazard (clinical workshop), **28**: 771
——, see Moster, W. G., jt. auth.
Rein, J., Austen, G., and Morrow, D. H., Effects of guanethidine and reserpine on the cardiac response to halothane, **24**: 672
Reivich, M., see Alexander, S. C., jt. auth.
Relaxants: see under Muscle Relaxants, Muscles; names of specific agents and compounds
Renal: see under Kidney
Rendell-Baker, L., Another close call with "crossed valves" (correspondence), **31**: 194
——, On the promise of economy denied (editorial), **29**: 5
——, and Roberts, R. B., Hazards of ethylene oxide sterilization (abstract), **30**: 349
Reppert, E. H., see Imparato, A. M., jt. auth.
Reprints
(current comment), **23**: 881
request for, **23**: 298
Research: see also under Education
anesthesiologist and use and care of laboratory animals (editorial), **22**: 832
anesthesiology, gas chromatography, analytical method for (Summers & Adriani), **22**: 100
anesthetic, analog computers in (Bellville & Hara), **27**: 70
consideration of control in (editorial), **23**: 384
design of experiments evaluating analgesics (editorial), **23**: 711
emerging methods for studying neural mechanisms in man (editorial), **24**: 610
environment for maximal development (Dripps), **25**: 440
in praise of ignorance—sometimes (editorial), **25**: 121
in dogs and men (editorial) (Flacke), **26**: 277
Reserpine: see also under Rauwolfia
effect on cardiac function during thiopental-cyclopropane anesthesia (abstract), **24**: 140
effect on cardiac function during thiopental-cyclopropane anesthesia in dog (Rusy & others), **26**: 14
effects on cardiac responses to halothane (Rein & others), **24**: 672
failure to replenish catecholamine stores in reserpinized dogs (Crandell & others), **24**: 636
hazards of anesthesia following (medical intelligence) (Ominsky & Wollman), **30**: 443
influence on cardiovascular and sympathoadrenal responses to cyclopropane anesthesia in dog (Bagwell & others), **25**: 148
influence on cardiovascular and sympathoadrenal responses to ether anesthesia in dog (Bagwell & others), **25**: 15
pharmacology of, and implications for anesthesia (review) (Alper & others), **24**: 524
therapy, effect of anesthetic agents on patients receiving (Munson & Jenicek), **23**: 741
Respiration: see also Hyperventilation; Hypoventilation; Ventilation; Lungs

accuracy of manual ventilation: comparison of closed and semiclosed breathing systems (abstract), **25**: 93
and acid-base changes during pregnancy (review) (Prowse & Gaensler), **26**: 381
acidosis cause "cyclopropane hypertension"? (Li & Etsten), **22**: 49
acidosis in adrenalectomized dogs, norepinephrine release during (Miller & Morris), **22**: 62
actions of halothane (Deutsch & others), **23**: 631
adverse effect on newborn of severe maternal hyperventilation (abstract), **24**: 135
after apnea from hyperventilation, oxygen and carbon dioxide tensions as factors in [Sugioka & others), **23**: 776
alterations in operation for tetralogy of Fallot (Nicodemus & Downes), **31**: 265
analysis of CO_2 and nitrogen curves for estimating efficiency of ventilation (abstract), **24**: 137
apparatus of Theodore Schwann (Foregger), **27**: 187
arrest and intraperitoneal neomycin (current comment), **21**: 224; 437
arterial oxygenation during transition from 100 per cent oxygen to air breathing, polarographic study (Heller & Watson), **22**: 385; (correction), **22**: 854
artificial (current comment), **21**: 570
artificial, cardiac arrhythmia induced by negative phase (clinical workshop), **29**: 382
artificial, nomogram for deadspace requirement during (clinical workshop), **29**: 1206
artificial, role in lung injury from oxygen in lambs (de Lemos & others), **30**: 609
artificial, tracheostomy cannula for speaking during (current comment), **25**: 719
asphyxia and muscle relaxants, effect on cardiac output in dog (Opdyke & others), **21**: 244
asphyxial death: roles of acute anoxia, hypercarbia and acidosis (Kristoffersen & others), **28**: 488
atelectasis and shunting during spontaneous ventilation in anesthetized patients (Bendixen & others), **25**: 297
blood gas exchange during endobronchial anesthesia (abstract), **21**: 100
calibration of Wright spirometer (current comment), **23**: 126; (current comment), **23**: 718
carbon dioxide and, in acid-base homeostasis (review) (Lambertsen), **21**: 642
carbon dioxide generator for stimulating (current comment), **23**: 132
carbon dioxide tensions to determine adequacy of ventilation (correspondence), **27**: 334; 335; 869
central and peripheral effects of halothane (abstract), **26**: 249
central mechanisms, effect of trichlorethylene and methoxyflurane on (abstract), **24**: 136
central regulation during halothane anesthesia (Fink & others), **23**: 200
changes in physiological dead space during deliberate hpyotension (Askrog & others), **25**: 744
changes in respiratory dead space during halothane, cyclopropane and nitrous oxide anesthesia (Askrog & others), **25**: 342
clinical significance of reflexes from respiratory system (review) (Widdicombe), **23**: 434
comparison of depressant effects of phentanyl, phentanyl and dehydrobenzperiodol, and morphine (abstract), **27**: 213
comparison of effort of infants anesthetized with adult and pediatric systems (abstract), **27**: 229
comparison of spontaneous and controlled breathing during cyclopropane anesthesia in infants (Freeman & others), **25**: 597
comparison with meperidine of effects on (Greisheimer & others), **21**: 370
concentration of halothane in closed and semiclosed circuits during controlled ventilation (Hill & Lowe), **23**: 291
continuous monitoring (current comment), **23**: 585
continuously recording ventimeter (current comment), **23**: 582
controlled, cardiovascular effects of carbon dioxide and cyclopropane during (Cullen & others), **31**: 407
controlled, cardiovascular effects of cyclopropane during (Cullen & others), **31**: 398
controlled hyperventilation, distribution of intracranial contents (Rosomoff), **24**: 640
controlled ventilation in newborn (current comment), **24**: 871
controlled ventilation, pulmonary oxygen toxicity in dogs under (abstract), **27**: 210
deadspace during controlled ventilation (abstract), **27**: 220
deadspace requirement for normal alveolar ventilation during artificial respiration in man (abstract), **28**: 271
depression associated with relief of pain by narcotics (Keats & Girgis), **29**: 1006
depression, intererlation of cough suppression and (abstract), **24**: 127
depression of in sedated bronchitic patient (Gold & others), **30**: 492
depression, morphine-induced, specific and nonspecific antagonism of (Papadopoulos & Keats), **23**: 86
doxapram as stimulant (Sanchez-Salazar & others), **24**: 808
effect of drugs on respiratory response to carbon dioxide (review) (Bellville & Seed), **21**: 727
effect of hyperventilation, hypothermia and urea on circulation and cerebrospinal fluid pressure in dog (Lund & others), **26**: 45
effect of hyperventilation on circulation and cerebrospinal fluid pressure in dog (Young & others), **24**: 313

XUM

effect of mainstream nebulization on oxygenation with IPPB (current comment), **24**: 580
effect of mechanical stimulation of lower airway on respiratory mechanics in apneic anesthetized man (Don & Robson), **27**: 284
effect of methotrimeprazine (Pearson & DeKornfeld), **24**: 38
effect of obstruction on brain size and motion (abstract), **23**: 142
effect of phenylephrine on survival and acid-base balance in dogs with acute hemorrhagic hypotension on constant volume ventilation (abstract), **21**: 107
effect of positive pressure ventilation on surface tension properties of lung extracts (Greenfield & others), **25**: 312
effect of postural variations on anatomic dead space before and after atropine (abstract), **27**: 224
effect of propiomazine on (Markello & King), **27**: 20
effects of carbon dioxide on in the cat (Raymond & Standaert), **28**: 974
effects of cyclopropane on (Jones & others), **21**: 380
effect of depressant drugs on carbon dioxide during anesthesia (abstract), **21**: 110
effects of diethyl ether and methoxyflurane (Larson & others), **30**: 174
effects of diethyl ether in dogs with and without nerve blocks (Muallem & others), **30**: 185
effects of expiratory resistance on blood gas tensions in anesthetized patients (Cheney & others), **28**: 670
effects of halothane and halothane-diethyl ether azeotrope in dogs (Dobkin & others), **21**: 13
effects of halothane, fluroxene and cyclopropane on (Munson & others), **27**: 716; (abstract), **27**: 222
effects of hyperventilation on neuromuscular and electromyographic studies (Katz & Wolf), **25**: 781
effects of morphine and curare on response curve (abstract), **23**: 139
effects of phenazocine and morphine (abstract), **21**: 90
effects of preanesthetic drugs on in man (Smith & others), **28**: 883
effects of trichlorethylene (abstract), **26**: 262
effects of *d*-tubocurarine on respiratory resistance (Gerbershagen & Bergman), **28**: 981
effects of vagal blockade on respiratory work in hypothermic animal (Hall & Salzano), **21**: 281
effects of varying pressure and flow rate settings of pressure-cycled respirators (clinical workshop), **28**: 1096
effects of varying respiratory waveforms on gas exchange (Bergman), **28**: 390
effects on recovery from anesthesia (Stoelting & Eger), **30**: 290
efficiency in postoperative patient (abstract), **21**: 93
electroencephalogram of awake man during hyperventilation: effect of oxygen at three atmospheres (abstract), **27**: 211
emergency treatment of acute respiratory failure (review) (Spence), **23**: 524
equipment for resuscitation (current comment), **25**: 858
exhalations, passive, in anesthetized subjects (Bergman), **30**: 378
experimental correction of hypercapnic intracranial hypertension (Dow & others), **23**: 46
flow-volume loops, effects of anesthesia and operation on (abstract), **29**: 174
gas studies with ether convulsion (case report) (current comment), **25**: 580
gases, effects on increased intracranial pressure (Weitzner & others), **24**: 291
Hering-Breuer reflex during anesthesia (editorial) (Ngai), **29**: 408
Hering-Breuer reflex during anesthesia, failure to account for tachypnea (Paskin & others), **29**: 550
humid atmospheres, inhalation of (medical intelligence) (Graff & Benson), **30**: 199
hyperventilation and abdominal reflex inhibition in rat (Downes), **24**: 615
hyperventilation, brain damage and flicker (abstract), **27**: 230
hyperventilation, effect on cerebral anesthetic equilibration (Munson & Bowers), **28**: 377
hyperventilation, maternal during labor (editorial) (James), **28**: 805
hyperventilation, spinal fluid and, during anesthesia in man (abstract), **28**: 251
hyperventilation studies during nitrous oxide-narcotic-relaxant anesthesia (Markello & others), **24**: 225
hyperventilation with oxygen, possible cause of cerebral hypoxia (Sugioka & Davis], **21**: 135
hypoventilation, acute alveolar, functional reduction of anatomical deadspace in (clinical workshop), **28**: 941
hypoventilation, postoperative and hypoxia following hyperventilation (abstract), **30**: 351
increased physiologic shunting during anesthesia and surgery (abstract), **24**: 122
infant mask for collection of respiratory samples (current comment), **23**: 876
influence of gas velocities and concentrations on match-blowing-out time (current comment), **25**: 392
influence of parameters upon intravenous drug requirements during surgical procedures, anesthetic time-dose curves (Keéri-Szanto & Leduc), **23**: 231
inspiratory and expiratory carbon dioxide concentrations during halothane anesthesia in infants (Podlesch & others), **27**: 823
inspiratory force measurement (correspondence), **28**: 235
inspiratory force measurement with anesthesia circuit (current comment), **28**: 209

intermittent deep breaths and compliance during anesthesia (Egbert & others), **24**: 57
intermittent positive pressure breathing (review) (Pierce & Vandam), **23**: 478
intermittent positive pressure, hemodynamic effects of (Morgan & others), **27**: 584
lung compliance of rabbit and posturally induced changes in functional residual capacity (Davidson & others), **27**: 817
lung mechanics and physiologic shunt during spontaneous breathing (Fletcher & Barber), **27**: 638
match test as aid to preoperative pulmonary evaluation (current comment), **25**: 391
measurement of inspiratory force in anesthetized dogs (Bendixen & Bunker), **23**: 315
measurement of mixed expired carbon dioxide concentration (laboratory notes) (Smith), **29**: 1037
mechanical, effect on physiologic deadspace of infants with normal lungs (abstract), **29**: 194
mechanical, of infants (technical note) (Haddad & Richards), **29**: 365
mechanical ventilation of infant (current comment), **27**: 692
mechanics during anesthesia, effects of atropine and carbon dioxide (Don & Robson), **26**: 168
mechanics during anesthesia, influence of airway adequacy (Gold & Helrich), **26**: 751
mechanics in apneic anesthetized infants (Reynolds & Etsten), **27**: 13
method for assessing postoperative ventilatory sufficiency (current comment), **27**: 321
monitor for infants (current comment), **21**: 774
nomogram for correction of needed gases during (clinical workshop), **29**: 150
obstruction (current comment), **26**: 577
obstruction during bronchography (current comment), **26**: 234
obstruction in normothermia and hypothermia (abstract), **21**: 93
obstruction, unusual cause for (current comment), **25**: 402
obstruction with oxygenation apnea (current comment), **24**: 880
patient regulation of mechanical ventilation (abstract), **21**: 120
phrenic nerve activity in hypercapnia and hypoxia (Garcia & Cherniack), **23**: 1029
physiology in newborn (review) (Avery & Normand), **26**: 510
positive pressure, increased cyanosis of tetralogy of Fallot due to (abstract), **27**: 217
posthyperventilation hypoxia: theoretical considerations in man (Sullivan & Patterson), **29**: 981
postoperative adequacy, effects of nitrous oxide-curare, ether and cyclopropane on (Boutros), **26**: 743
postoperative, comparison of five methods of increasing (clinical workshop), **29**: 1212
postoperative complications, comparison of arterial gas tensions, radiographs and physical examination (Hamilton & others), **25**: 607
postoperative pain relief and respiratory function in man (Muneyuki & others), **29**: 304
postoperative ventilation studies in recovery room (abstract), **21**: 109
pressure-volume relationships of single lung (Gliedman & others), **23**: 41
prevention of accidental breathing of anoxic gas mixtures during anesthesia (Epstein & others), **23**: 1
pulmonary effect of prolonged constant volume ventilation (abstract), **25**: 100
pulmonary function and tests for ventilatory adequacy (review) (Mitchell), **23**: 422
pulmonary function in normal infant (editorial), **25**: 593
pulmonary ventilation in children during halothane anesthesia (Wilson & Harrison), **25**: 613
rate, numerical indication of (current comment), **25**: 861
reflex activity of larynx during breathing (abstract), **24**: 139
relation of alveolar to tidal volume during respiratory failure (abstract), **27**: 218
relationship of, to directly measured brain CO_2 tension (abstract), **21**: 102
relative depressant effects of oxymorphone (Numorphan) and morphine (Bellville & others), **21**: 397
respiratory care unit (review) (Holmdahl), **23**: 559
respiratory failure, effect of age in (abstract), **29**: 196
respiratory failure, oxygen consumption and blood gas exchange during controlled and spontaneous ventilation in patients with (abstract), **29**: 177
respiratory waveforms, effects on distribution of inspired gas during artificial ventilation (abstract), **29**: 175
respiratory work during anesthesia (abstract), **28**: 273
response of infants to added dead space (abstract), **26**: 254
response to carbon dioxide, effect of sleep plus morphine on (Forrest & Bellville), **25**: 137
response to halothane, nitrous oxide effects on (Hornbein & others), **31**: 250
response to tilt with pentazocine (Win 20, 228), droperidol (R4749), droperidol-fentanyl (Inovar), and methotrimeprazine (abstract), **26**: 253
shunts and breathing patterns (editorial) (Ferris), **27**: 533
significance of respiratory dead space alterations (editorial), **25**: 741
simple technique for manual administration of positive-negative pressure ventilation (current comment), **27**: 501

XUM

simplified apparatus for IPPB-aerosol therapy (current comment), **26**: 362
spontaneous, blood gas studies with halothane, nitrous oxide, and oxygen anesthesia during (abstract), **26**: 247
spontaneous, postanesthetic initiation after passive hyperventilation (Edelist & Osorio), **31**: 222
stimulants (editorial), **21**: 214; (current comment), **21**: 437
studies of gas flows (Munson & others), **24**: 61
study under spinal anesthesia, electromyograph in (abstract), **23**: 165
thiopental depression, effect of methylphenidate on (abstract), **21**: 94
unusual case of obstruction (current comment), **26**: 687
valve for assisted on controlled ventilation (current comment), **21**: 83
variations in carbon dioxide balance and ventilatory response (abstract), **21**: 111
ventilation, effects of methoxyflurane on in man (Dunbar & others), **28**: 1020
ventilation of emphysematous patient during anesthesia (abstract), **24**: 126
ventilation, positive pressure, changes in arterial carbon dioxide tension during (Morgan & others), **28**: 866
ventilation-blood acid-base diagram (abstract), **24**: 131
ventilation-cardiac compression rates and ratios in cardiopulmonary resuscitation (Harris & others), **28**: 806
ventilation-perfusion changes during thoracotomy (Virtue & others), **27**: 132
ventilatory reserve during high spinal and epidural anesthesia (Freund & others), **28**: 834
ventilatory response of infants to airway resistance (Graff & others), **27**: 168
ventilatory response to hypercapnia and hypoxia at normothermia and moderate hypothermia during constant-depth halothane anesthesia (Regan & Eger), **27**: 624
volume-pressure relations of curarized infants (Nightingale & Richards), **26**: 710
V-tube for manual assisted (current comment), **25**: 859
with air or nitrous oxide-oxygen mixture, apneic oxygenation following (abstract), **25**: 102
Respirators: see Apparatus and equipment, respirators: also Apparatus and equipment, ventilators; Ventilators
Air-Shields, humidifying (current comment), **26**: 573
Air-Shields Ventimeter, safety modification of (current comment), **26**: 361
alarm device for (current comment), **22**: 640
Ambu, adaptation for high oxygen concentration (current comment), **24**: 877
automatic lung (review) (Holaday & Rattenborg), **23**: 493
Beck-Rand external cardiac compression machine (current comment), **24**: 586
-controlled (nonrebreathing) anesthesia with methoxyflurane (current comment), **24**: 254
Drinker-type attachment for (current comment), **24**: 115
Engstrom, measurement of spontaneous ventilation with (current comment), **24**: 880
evaluation (Elder & others), **24**: 95
for infants (current comment), **25**: 712
intermittent positive pressure (current comment), **21**: 220
Jefferson, "inboard" mounting for (current comment), **21**: 435
modified Moerch piston (current comment), **25**: 81
performance on Engström (current comment), **27**: 504
piston-type, warning system for (current comment), **27**: 509
portable intermittent positive pressure breathing apparatus (current comment), **27**: 508
positive pressure (current comment), **22**: 121
pressure sensitive alarm (current comment), **26**: 359
techniques of anesthesia for neurosurgery (abstract), **22**: 143
ultrasonic conversion of Emerson PV3 (current comment), **27**: 866
Respiratory alkalosis, effects of cardiac output and postganglionic sympathetic activity during (Moster & others), **31**: 28
Respiratory Resuscitation: see Respiration; Resuscitation
Respiratory System: see under Respiration
Resuscitation
after "death" from lightning (current comment), **21**: 222
cardiac, arterial-alveolar CO^2 gradient after (Suwa & others), **30**: 37
cardiac, closed chest massage in newborn (current comment), **22**: 644
cardiac, comparison of open-chest and closed-chest massage (Redding & Cozine), **22**: 280
cardiac, evaluation of drugs for (Redding & Pearson), **24**: 203
cardiac, following two hours of cardiac massage and 42 countershocks (current comment), **27**: 97
cardiac method for concurrent artificial ventilation and cardiac massage by the same individual (clinical workshop), **29**: 841
cardiac, need for ventilation during closed chest massage (current comment), **22**: 636
cardiac, sodium bicarbonate in (abstract), **25**: 108
cardiac, sodium bicarbonate and epinephrine in (abstract), **25**: 105
cardiopulmonary, a laboratory evaluation (abstract), **24**: 132
cardiopulmonary augmentation of artificial circulation during (Harris & others), **28**: 730
cardiopulmonary, ventilation-cardiac compression rates and ratios in (Harris & others), **28**: 806
device for artificial respiration (current comment), **22**: 495

from drowning (abstract), **21**: 113
heart, Beck-Rand external compression machine (current comment), **24**: 586
influence of head-jaw position upon upper airway patency (Morikawa & others), **22**: 265
of depressed newborn (review) (Smith & Moya), **26**: 549
potassium superoxide as oxygen source during (abstract), **24**: 125
problems from cold exposure (abstract), **24**: 124
respiratory, equipment for (current comment), **24**: 739; **25**: 858
upper airway problems in, studies of pharyngeal x-rays and performance by laymen (Ruben & others), **22**: 271
Reticuloendothelial Phagocytic Function
in experimental shock (abstract), **27**: 219
Reticuloendothelial system
in experimental shock (Hershey & Altura), **30**: 138
in experimental shock, effects of vasoactive drugs on (Hershey & Altura), **30**: 144
Retrobulbar Block
comparison with intravenous atropine, prevention of oculo-cardiac reflex in children (Taylor & others), **24**: 646
Revell, D. G., see Roffey, P. J., jt. auth.
Rew, J. B., (current comment), **22**: 494
Reynolds, R. N., A pulmonary ventilator for infants (current comment), **25**: 712
——, Acid-base equilibrium during cyclopropane anesthesia and operation in infants, **27**: 127
——, and Etsten, B. E., Mechanics of respiration in apneic anesthetized infants, **27**: 13
Rheinlander, Harold F. (with Li, T. H., and Etsten, B.), Circulatory changes due to open pneumothorax in surgical patients, **21**: 171
Rhinencephalon: see under Brain
Riccio, J. S., see Keet, J. E., jt. auth.
Richards, C. C., and Freeman, A., Intra-atrial catheter placement under electrocardiographic guidance (current comment), **25**: 388
——, see Haddad, C., jt. auth.
——, see Nightingale, D. A., jt. auth.
Richards, R. K., Smith, N. T., and Katz, J., The effects of interaction between lidocaine and pentobarbital on toxicity in mice and guinea pig atria, **29**: 493
——, see Smith, R. H., jt. auth.
Richardson, J. A., (with Hamelberg, W., Sprouse, J. H., and Mahaffey, J. E.), Catechol amine levels during light and deep anesthesia, **21**: 297
Richter, W. R., see Smith, R. H., jt. auth.
Ring, W. H., Modification of Crowe-Davis gag (current comment), **24**: 740
——, Standardization of inhalation anesthetic equipment (clinical workshop), **30**: 112
Rita, L., see Seleny, F. L., jt. auth.
Ritalin: see Methylphenidate
Rivard, G., see Motoyama, E. K., jt. auth.
Robbins, B. H., and Thomas, J. D., Cyclopropane arrhythmias in the cat: their cause, prevention and correction, **21**: 163
Roberts, A. P., and Vandam, L. D., (current comment), **23**: 587
Roberts, R. B., see Rendell-Baker, L., jt. auth.
Robertson, D. N., see Chenoweth, M. B., jt. auth.
Robin, E. D., Some aspects of fluid and electrolyte metabolism in the brain (review), **26**: 791
——, see Smith, J. D., jt. auth.
Robinson, A., Denson, J. S., and Summers, F. W., (current comment), **23**: 391
Robles, R., see de Jong, R. H., jt. auth.
Robson, J. G., The effects of anesthetic drugs on cortical units, **28**: 144
——, Davenport, H. T., and Sugiyama, R., Differentiation of two types of pain by anesthetics, **26**: 31
——, see Don, H. F., jt. auth.
——, see Lim, H. S., jt. auth.
Rodger, B. P., The art of preparing the patient for anesthesia, **22**: 548
Rodger, B. R., American Society of Clinical Hypnosis (report of meeting), **29**: 396
Roentgenograms
pharyngeal, studies in investigation of upper airway problems in resuscitation (Ruben & others), **22**: 271
Roesch, R., see Taylor, C., jt. auth.
Roffey, P. J., Revell, D. G., and Morris, L. E., An assessment of the Revell circulator, **22**: 583
Rogers, W. P., see Stewart, D. M., jt. auth.
Roos, A., and Thomas, L. J., The in-vitro and in-vivo carbon dioxide dissociation curves of true plasma. A theoretical analysis, **28**: 1048
Rosen, J., and Secher, O., Intensive care unit at University Hospital, Copenhagen, **24**: 855
Rosenkaimer, S., see Marcus, P. S., jt. auth.
Rosevear, J. W., see Moffitt, E. A., jt. auth.
——, see Wang, J. K., jt. auth.
Rosner, B. S., see Abrahamian, H. A., jt. auth.
Rosomoff, H. L., Distribution of intracranial contents with controlled hyperventilation: implications for neuroanesthesia, **24**: 640
——, see Tenicela, R., jt. auth.
Ross, C. A., see Wang, R. I. H., jt. auth.
Ross, S. M., An improved ECG Luer-Lok adaptor (current comment), **24**: 588
Rossway, W. H., Caustic skin burns following contact with solution from exhausted carbon dioxide absorption canister (current comment), **27**: 100
Rotator: see under Apparatus and equipment
Roth, J. C., (with Underwood, R. J., and Starr, A., The influence of anesthetic technique on oxygen consumption during total cardiopulmonary bypass, **21**: 263
Roth, R. H., see Giarman, N. J., jt. auth.

ROTTENSTEIN, H. S., (with CRAYTHORNE, N. W. B., and DRIPPS, R. D.), The effect of succinylcholine on intraocular pressure in adults, infants and children during general anesthesia, **21**: 59

ROVENSTINE, E. A. (with MUNCHOW, O. B.; GRANATELLI, A. F., and COLLINS, V. J.), Clinical experiences with metaraminol as a vasopressor agent in spinal anesthesia, **21**: 471

ROVENSTINE, E. A., Biographical data (E. A. Rovenstine Memorial Lecture) (Papper), **28**: 1074

——, Memorial Lecture (Papper), **28**: 1074

——, obituary, **22**: 317

ROWE, G. G., AFONSO, S., LUGO, J. E., and BOAKE, W. C., Systemic and coronary hemodynamic effects of trimethaphan camphorsulfonate (Arfonad) in the dog, **25**: 156

——, AFONSO, S., LUGO, J. E., and CRUMPTON, C. W. The systemic and coronary hemodynamics, of tromethamine (THAM) in the anesthetized dog, **25**: 317

ROWLAND, W. V., see KEISTER, H. F. S., jt. auth.

Rubber

solubility of halothane in (Eger & others), **23**: 356

solubility of methoxyflurane in (Eger & Brandstater), **24**: 679

Rubber, silicone

arteriovenous shunts for induction of anesthesia with volatile anesthetics (Folkman & others), **29**: 410

occlusion of hypodermic needle for intracerebral gas anesthesia (Folkman & others), **29**: 419

Rubber-gas partition coefficients (clinical workshop), **29**: 1215

RUBEN, A. M., see RUBEN, H. M., jt. auth.

RUBEN, HENNING (participant-panel discussion), What is the significance of hypercarbia or hypocarbia in the anesthetized patient? **21**: 759

——, ELAM, J. O., RUBEN, A. M., and GREENE, D. G., Investigation of upper airway problems in resuscitation. 1. Studies of pharyngeal x-rays and performance by laymen, **22**: 271

RUBEN, J. E., Toxicity of intravenous procaine (current comment), **25**: 249

RUDO, F., (current comment), **22**: 491

RUIZ, B. C., see MODELL, J. H., jt. auth.

RUSCIO, J. F., see MARCUS, P. S., jt. auth.

RUSY, B. F., (with GREISHEIMER, E. M.; KRUMPERMAN, L. W., and ELLIS, D. W.), Comparison of effects of phenazocine and meperidine on respiration, **21**: 370

——, TALLARIDA, R. J., KARETAS, A. I., and LOUGHNANE, M. H., Alteration, by halothane, of the effect of isoproterenol on maximum acceleration of ejected left-ventricular blood (abstract), **30**: 350

——, WITHERSPOON, C. D., MONTANER, C. G., FREEMAN, E., MACHADO, R. A., WEBSTER, M. R., and KRUMPERMAN, L. W., Effect of reserpine on cardiac function during thiopental-cyclopropane anesthesia in the dog, **26**: 14

RUTLEDGE, C. O., SEIFEN, E., ALPER, M. H., and FLACKE, W., Analysis of halothane in gas and blood by gas chromatography, **24**: 862

RYDBERG, J. S., see WESTGATE, H. D., jt. auth.

S

SABAWALA, P. B., Correlation of mechanical and electrical events in depolarization paralysis of isolated human intercostal muscle (abstract), **30**: 350

——, and DILLON, J. B., On the action of Imbretil on isolated human intercostal muscle, **22**: 569

——, and DILLON, J. B., The combined effect of cyclopropane and the depolarizers on isolated human muscle, **22**: 564

——, see ATTAS, M., jt. auth.

SACHS, D. H., On the variation of anesthetic potency with vapor pressure (correspondence), **29**: 1064

SAFAR, P., (current comment), **22**: 323, 636

——, and DAVIS, G., Modified Moerch piston respirator (current comment), **25**: 81

——, and GALLA, S. J., (current comment), **23**: 715

——, and HARRIS, L. C., JR., The Beck-Rand external cardiac compression machine (current comment), **24**: 586

——, and PENNINCKX, J., Cricothyroid membrane puncture with special cannula (clinical workshop), **28**: 943

——, and TENICELA, R., High altitude physiology in relation to anesthesia and inhalation therapy, **25**: 515

——, see CARROLL, R., jt. auth.

——, see HARRIS, L. C., jt. auth.

——, see HEDDEN, M., jt. auth.

——, see LOEHNING, R. W., jt. auth.

——, see MILAI, A. S., jt. auth.

——, see MORIKAWA, S., jt. auth.

——, see SMITH, J. D., jt. auth.

——, see STEPT, W. J., jt. auth.

——, see TENICELA, R., jt. auth.

Safety

(editorial), **23**: 124

SAIDMAN, L. J., The effects of Ēthrane (correspondence), **31**: 386

——, and EGER, E. I., II, Changes in cerebrospinal fluid pressure during pneumoencephalogram under nitrous oxide anesthesia, **26**: 67

——, and EGER, E. I., II, Effect of nitrous oxide and of narcotic premedication on the alveolar concentration of halothane required for anesthesia, **25**: 302

——, and EGER, E. I. II, The effect of thiopental metabolism on duration of anesthesia, **27**: 118

——, Eger, E. I. II, Munson, E. S., Babad, A. A., and Muallem, M., Minimum alveolar concentrations of methoxyflurane, halothane, ether and cyclopropane in man; Correlation with theories of anesthesia, **28**: 994
——, Eger, E. I., II, Munson, E. S., and Severinghaus, J. W., A method for determining solubility of anesthetics utilizing the Scholander apparatus (laboratory method), **27**: 180
——, see Eger, E. I. II, jt. auth.
——, see Munson, E. S., jt. auth.
Saifer, A., see Marx, G. F., jt. auth.
St. Pierre, M., see Freeman, A., jt. auth.
Saito, T., Effect of methoxyflurane on plastic catheters (current comment), **25**: 857
——, see Hirano, T., jt. auth.
——, see Oyama, T., jt. auth.
Saklad, M., An inhalational therapy service (review), **23**: 569
——, and Gulati, R., Adaptation of Ambu respirator for high oxygen concentration (current comment), **24**: 877
——, and Paliotta, J., A nomogram for correction of needed gases during artificial ventilation (clinical workshop), **29**: 150
——, and Paliotta, J., Trans-endotracheal tube suction in the simulated breathing patient, **28**: 652
——, and Wickliff, D., Functional characteristics of artificial ventilators, **28**: 716
——, Wickliff, D., and Eubanks, D., A bailing device for the automatic removal of condensate from breathing tubes (clinical workshop), **28**: 951
——, and Yamada, M., Measurement of spontaneous ventilation with the Engstrom respirator (current comment), **24**: 880
Salanitre, E., (current comment), **22**: 852
——, Klonymus, D., and Rackow, H., Anesthetic experience in children with cystic fibrosis of the pancreas, **25**: 801
——, and Rackow, H., Changing trends in the anesthetic management of the child with cleft lip-palate malformation, **23**: 610
——, and Rackow, H., Respiratory complications associated with the use of muscle relaxants in young infants, **22**: 194
——, and Rackow, H. The pulmonary exchange of nitrous oxide and halothane in infants and children, **30**: 388
——, Rackow, H., Epstein, R. M., and Wolf, G., Ethylene uptake in man (correspondence), **26**: 579
——, Rackow, H., Greene, L. T., Klonymus, D., and Epstein, R. M., Uptake and excretion of subanesthetic concentrations of nitrous oxide in man, **23**: 814
——, Rackow, H., Wolf, G. L., and Epstein, R. M., The uptake of ethylene in man, **26**: 305
——, Wolf, G. L., and Rackow, H., Pulmonary exchange of divinyl ether in man, **28**: 535
——, see Epstein, R. M., jt. auth.
——, see Rackow, H., jt. auth.
Salem, M. R., An effective method for the treatment of hiccups during anesthesia (current comment), **28**: 463
——, Arrhythmias and negative airway pressure (letter to editor, clinical workshop), **29**: 1063
——, Pulse-rate changes in elderly patients during deliberate hypotension (clinical workshop), **30**: 328
——, and El Etr, A. A., Management of hemorrhage following induced hypotension (clinical workshop), **28**: 1104
——, El Etr, A. A., and Rattenborg, C. C., Deliberate hypotension for the management of threatening hemorrhage (clinical workshop), **29**: 155
——, Kim, Y., and El Etr, A. A., Histamine release following intravenous injection of *d*-tubocurarine (clinical workshop), **29**: 380
——, see El Etr, A. A., jt. auth.
Salgado, A. S., Potentiation of succinylcholine by procaine, **22**: 897
——, The distribution of procaine in human blood: relation to potentiation of succinylcholine (laboratory notes), **29**: 1040
Saline
  isotonic, effect on alveolar architecture (abstract), **26**: 252
  physiologic effects of near drowning with isotonic (Modell & others), **27**: 33
Saliva
  antisialogogue effect of phenothiazine derivatives (Dobkin & Palko), **21**: 260
Salivary glands
  enlargement during induction of anesthesia (clinical workshop), **29**: 1050
Salmoiraghi, G. C., and Weight, F., Micromethods in neuropharmacology: An approach to the study of anesthetics, **28**: 54
Salt-water aspiration, serum electrolytes after (Modell & Davis), **30**: 414
Saltzman, H. A., see Fuson, R. L., jt. auth.
Salvatore, A. J., Sullivan, S. F., and Papper, E. M., Postoperative hypoventilation and hypoxia in man following hyperventilation (abstract), **30**: 351
Salzano, J. (with Hall, G. F.), Effects of vagal blockade on respiratory work in the hypothermic animal, **21**: 281
Samejima, N., see Oyama, T., jt. auth.
Samuel, E., Radiology in sterile areas (symposium article), **31**: 137
Sanchez-Salazar, A. A., Pembleton, W. E., and Banerjee, C. M., Doxapram hydrochloride as a respiratory stimulant in anesthetized man, **24**: 808
Sandler, S. S., Epidural block (comment), **28**: 786
Sanger, B. A., and Kinyon, G. E., Sensitivity to curare by a patient with undiagnosed myasthenia gravis syndrome (current comment), **27**: 325

SATNICK, J. H., Hyperthermia under anesthesia with regional muscle flaccidity (clinical workshop), **30**: 472
SATIO, I., see KITAHATA, L., M. jt. auth.
SATO, S., see YAMAMURA, H., jt. auth.
SATTILARO, A. J., see BANNISTER, W. K., jt. auth.
SAVOIE, L., see SELYE, H., jt. auth.
SAVRAN, S. V., see GOTTLIEB, S. F., jt. auth.
SAWINSKI, V. J., GOLDBERG, A. F., and GOLDBERG, N. B., Osmolality of spinal anesthetic agents (current comment), **27**: 86
——, see GOLDBERG, N. B., jt. auth.
SAWYER, H. P., JR., see LINCOLN, J. R., jt. auth.
SAWYER, T. K., see KENNEDY, W. F., jt. auth.
SCHANER, P. J., see SIKER, E. E., jt. auth.
SCHAPIRA, M. see FOLDES, F. F., jt. auth.
SCHELLINGER, R. R., The length of the airway to the bifurcation of the trachea, **25**: 169
SCHETTINI, A., COOK, A. W., and OWRE, E. S., Hyperventilation in craniotomy for brain tumor, **28**: 363
SCHMIDT, K. F., Effect of halothane anesthesia on regional acetylcholine levels in the rat brain, **27**: 788
——, Metabolism of procaine in cerebrospinal fluid contaminated with blood (current comment), **25**: 563; correction, **25**: 876
SCHMIDT, S. J., see VANDERVEEN, J. L., jt auth.
SCHNAPER, N., *What* preanesthetic visit? (editorial), **22**: 486
——, Postanesthetic (postoperative emotional responses (review), **22**: 674
SCHNEIDER, P. J., and ANDERSON, B. M., How to make your laryngoscope light work (currrent comment) **26**: 576
SCHNEIDERMAN, B. I., (current comment), **22**: 319
——, An aid for blind naso-endotracheal intubation (current comment), **27**: 93
SCHOENSTADT, D. A., and WHITCHER, C. E., Observations on the mechanism of succinyldicholine-induced cardiac arrhythmias, **24**: 358
Scholander Apparatus
  determining solubility of anesthetics utilizing (Saidman & others), **27**: 180
SCHOTZ, S., (current comment), **23**: 135, 877
SCHROEDER, C. F., see DE KREY, J. A., jt auth.
——, see MILLER, R. D., jt auth.
SCHULL, L. G., BERRY, G., and VILLARREAL, R., Prevention and correction of ventricular arrhythmias by dichloroisoproterenol in dogs anesthetized with cyclopropane, **22**: 444
——, BERRY, G., VILLARREAL, R., and THOMAS, J., The effect of morphine on the cardiovascular system of the dog anesthetized with cyclopropane, **22**: 199
SCHULTZ, E. A.; BUCKLEY, J. J.; OSWALD, A. J., and VAN BERGEN, F. H., Profound acidosis in an anesthetized human: report of a case, **21**: 285
——, see TANASICHUK, M. A., jt. auth.
——, see WESTGATE, H. D., jt. auth.
SCHWANN, THEODORE
  respiratory apparatus of (Foregger), **27**: 187
SCHWARTZ, F. D., see MAZZE, R. I., jt auth.
SCHARTZ, H., see RAVIN, M. B., jt auth.
SCHWARTZ, M., see MACKRELL, T. N., jt auth.
SCHWARZBACH, R., see GALLA, S. J., jt auth.
SCHWEIZER, H. J., see KUBOTA, Y., jt. auth.
SCHWEIZER, O., and HOWLAND, W. S., Disturbances in acid-base balance during major surgery, **24**: 158
——, and HOWLAND, W. S., Potassium levels, acid-base balance and massive blood replacement, **23**: 735
——, (with HOWLAND, W. S., and BELLVILLE, J. W.), The recovery room: a clinical laboratory, **21**: 251
——, HOWLAND, W. S., SULLIVAN, C., VERTES, E., The effect of ether and halothane on blood levels of glucose, pyruvate, lactate and metabolites of the tricarboxylic acid cycle in normotensive patients during operation, **28**: 814
——, see HOWLAND, W. S., jt. auth.
Sciatic Nerve: see also under Nerves
  block, anterior approach (Beck), **24**: 222
Scopolamine
  atropine, and related compounds (review) (Eger), **23**: 365
  central and peripheral effects in man (Domino & Corssen), **28**: 568
  comparison of various drug combinations as pediatric preanesthetic medication (Eger & others), **22**: 962
  effects of mixtures with secobarbital and with fentanyl (Stephen & others), **31**: 237
  effects on the airways of man (Smith & DuBois), **31**: 12
  effects on cardiovascular system (Gravenstein & others), **25**: 123; (List & Gravenstein), **26**: 299
  effects on fetal responses to maternal hemorrhage and subsequent vasopressor administration (abstract), **27**: 208
  intravenous, during cyclopropane-succinylcholine anesthesia (Colón-Yordán & Jiménez-Vélez), **23**: 333
SCREWS, C., JR., Schema for premedication dosage and selection of endotracheal tubes for children (current comment), **25**: 398
SEARCY, R. L., see GORDON, G. F., jt. auth.
SECHER, O., see ROSEN, J., jt. auth.
SECHZER, P. H., (current comment), **22**: 849
——, Subdural space in spinal anesthesia (current comment), **24**: 869
——, LINDE, H. W., DRIPPS, R. D., and PRICE, H. L., Uptake of halothane by the human body, **24**: 779
Secobarbital
  scopolamine and, respiratory pharmacology (Stephen & others), **31**: 237
Second Gas Effect
  explanation for (Stoelting & Eger), **30**: 273
  influence of concentration effect on uptake of anesthetic mixtures (Epstein & others), **25**: 364

Secretions
use and abuse of suctioning (current comment), **22**: 850
Sedation of bronchitic patients (Gold & others), **30**: 492
Sedatives: see also specific agents
propiomazine, pentobarbital, and hydroxyzine compared (Elliott & others), **31**: 233
spironolactone inhibition of effects (Selye & others), **31**: 261
SEED, JOHN C. (with BELLVILLE, J. WELDON), The effect of drugs on the respiratory response to carbon dioxide (review), **21**: 727
SEGAL, M. S., TRAVERSE, N., and DULFANO, M. J. Inhalational therapy for chronic lung disease (review), **23**: 513
SEIFEN, A., see LAVER, M. B., jt. auth.
SEIFEN, E., see RUTLEDGE, C. O., jt. auth.
SEIGLEMAN, M., Halothane and hepatic necrosis (current comment), **24**: 746
Seizures: see also under Convulsions
liodocaine-induced, acid-base changes in (abstract), **30**: 347
SEKELJ, P., see DAVENPORT, H. T., jt. auth.
SEKINO, E., see NOE, F. E., jt. auth.
SELDON, T. H., Untoward reactions and complications during transfusions and infusions (review), **22**: 810
SELENKOW, H. A., and HOLLANDER, C. S., Physiologic, pharmacologic and therapeutic considerations in surgery for hyperthyroidism (review), **24**: 425
SELENY, F. L., ALLAN, D., COX, J. M., and RITA L., A silica-gel trap system for dehumidification of expired gases (clinical workshop), **29**: 371
SELLERS, R. D., see GLIEDMAN, M. L., jt. auth.
SELLERY, G. R., and FAIRLEY, M. B., Inspired oxygen concentration delivered by the Bird ventilator (current comment), **28**: 453
SELYE, H., MÉCS, I., and SAVOIE, L., Inhibition of anesthetics and sedative actions by spironolactone, **31**: 261
Semiclosed Systems: see Anesthesia, systems
SENIFF, A. M., see BROWN, E. S., jt. auth.
Septicemia
as cause of immediate postoperative hyperthermia (current comment), **27**: 329
SERKS, K. D., LANG, S., and PAREIRA, M. D., (current comment), **23**: 134
Serotonin
cerebral, effects of cyclopropane, halothane and diethyl ether on (Diaz & others), **29**: 959
effects of anesthetics on metabolism in rat brain (abstract), **29**: 184
secreting carcinoid tumors, anesthetic significance (review) (Stone & Donnelly), **21**: 203
Serum: see also under Blood
hyperosmolality, urea induced, and central nervous system (Benson & Murphy), **22**: 24
SESSLER, A. D., see THEYE, R. A., jt. auth.
SEUFFERT, G. W., SHOUKAS, J. A., STONER, T. R., JR., and URBACH, K. F., A modification for the use of the Bird Mark 2 ventilator (clinical workshop), **29**: 1056
SEVERINGHAUS, J. W., (current comment), **23**: 582
——, International symposium on "CSF and CBF" (report of meeting), **29**: 1232
——, Method of measurement of blood and gas carbon dioxide during anesthesia, **21**: 717
——, LARSON, C. P., and EGER, E. I., Correction factors for infrared carbon dioxide pressure broadening by nitrogen, nitrous oxide and cyclopropane, **22**: 429
——, see COTEV, S. jt. auth.
——, see EGER, E. I., II, jt. auth.
——, see LARSON, C. P., JR., jt. auth.
——, see McALEAVY, J. C., jt. auth.
——, see SAIDMAN, L. J., jt. auth.
SEWALL, K., see GRAFF, T. D., jt. auth.
Sex
influence on anesthetic morbidity and mortality (Gordh), **25**: 466
SHANKS, C., see CHEN, P.-Y., jt. auth.
——, see SHIMOSATO, S., jt. auth.
SHAPIRO, G., Modified head for standard intravenous pole (current comment), **25**: 715
SHARGEL, R. O., A gas-liquid equilibrating rotator for simultaneous solubility or content measurements (clinical workshop), **31**: 465
——, see EGER, E. I., II, jt. auth.
SHARP, J. T., see GOLDBERG, N. B., jt. auth.
SHAUL, M. S., see LI, T.-H., jt auth.
SHAW, W. M., (current comment), **22**: 1019
——, Positional control of immediate post-anesthetic vomiting (current comment), **26**: 359
SHEELEY, L. L., and VOLPITTO, P. P., An inexpensive and satisfactory method for gas sterilization of anesthetic equipment (current comment), **27**: 95
SHEFFER, MARCUS B., and GREIFENSTEIN, F. E., The emotional responses of patients to surgery and anesthesia, **21**: 502
SHELTON, D. F., see PETTY, W. C., jt auth.
SHEPARD, D. A. E., and VANDAM, L. D., Anaphylaxis associated with the use of dextran (current comment), **25**: 244
SHER, R., see COHEN, E. N., jt auth.
SHERRY, S., Fibrinolysis and afibrinogenemia (review), **27**: 465
SHIBUYA, J., see ALBERT, S. N., jt auth.
SHIFFMAN, H. P., see FOLDES, F. F., jt. auth.
SHIMOSATO, S., Isovolemic intraventricular pressure change: an index of myocardial contractility during anesthesia, **31**: 327
——, The effects of Ēthrane (correspondence), **31**: 386
——, CHEN, P.-Y., GILBERT, J. D., and ETSTEN, B. E., Effect of Ēthrane on the performance of the left ventricle (abstract), **30**: 351
——, and ETSTEN, B., Performance of digitalized heart during halothane anesthesia, **24**: 41

——, and ETSTEN, B. E., The role of the venous system in cardiocirculatory dynamics during spinal and epidural anesthesia in man, **30**: 619
——, GAMBLE, C., and ETSTEN, B. E., Differential effects of diethyl ether anesthesia on right and left myocardial functi ., **28**: 874
——, SHANKS, C., and ETSTEN, B., The effects of methoxyflurane and sympathetic-nerve stimulation on myocardial mechanics, **29**: 538
——, SUGAI, N., and ETSTEN, B. E., The effect of methoxyflurane on the inotropic state of myocardial muscle, **30**: 506
——, SUGAI, N., IWATSUKI, N., and ETSTEN, B. E. The effect of Ethrane on cardiac muscle mechanics, **30**: 513
——, see CHEN, P.-Y., jt auth.
——, see ETSTEN, B. E., jt. auth.
——, see LI, T.-H., jt. auth.
——, see SUGAI, N., jt. auth.
SHNIDER, S. M., Organization of an obstetric anesthesia service (review), **26**: 562
——, Serum cholinesterase activity during pregnancy, labor and the puerperium, **26**: 335
——, The anesthesiologist views the design and function of the delivery room (symposium article), **31**: 172
——, and MOYA, F., Amniotic fluid embolism (review), **22**: 108
——, MOYA, F., THORNDIKE, V., BOSSERS, A., MORISHIMA, H., and JAMES, L. S., Clinical and biochemical studies of cyclopropane analgesia in obstetrics, **24**: 11
——, and PAPPER, E. M., Anesthesia for the asthmatic patient, **22**: 886
——, and SINGER, M. M., Adaptation of the infant pulmonator (current comment), **25**: 574
——, and WAY, E. L., Plasma levels of lidocaine (Xylocaine) in mother and newborn following obstetrical conduction anesthesia: clinical applications, **29**: 951
——, and WAY, E. L., The kinetics of transfer of lidocaine (Xylocaine) across the human placenta, **29**: 944
——, see ASLING, J. H., jt. auth.
——, see HOLL, J. W., jt. auth.
Shock
current theories (review) (Hershey), **21**: 303
endotoxin, blood coagulation and leukocyte ratios in (abstract), **29**: 171
experimental, effects of vasoactive drugs on reticuloendothelial system in (Hershey & Altura), **30**: 144
experimental, influence of vasoexcitor drugs on reticuloendothelial phagocytic function in (abstract), **27**: 219
experimental, reticuloendothelial system in (Hershey & Altura), **30**: 138
halothane versus cyclopropane in (abstract), **24**: 125
hazard: see under Apparatus and equipment
hazards in hospitals (symposium article) (Hopps), **31**: 142
hemmorrhagic, effects of vasopressors on survival in (Hershey & others), **26**: 179
hypovolemic, corticosteroids in (abstract), **27**: 221
hypoxemia in (abstract), **29**: 211
in obstetric patient (review) (Marx), **26**: 423
intestinal ischemic, reticuloendothelial phagocytic clearance as index of host response to (abstract), **28**: 256
intestinal ischemic (SMA), therapy with vasoactive drugs (Hershey & others), **29**: 466
Shoes, conductive: see Apparatus and equipment
Shoe-Tester
unlocks door (current comment), **26**: 572
SHORT, C. E., First International Symposium on Electrosleep and Electroanesthesia (report of meeting), **28**: 638
SHOUKAS, J. A., STONER, T. R., JR., and URBACH, K. F., A simple method of anesthetizing the nasopharynx prior to awake nasal intubation (clinical workshop), **30**: 111
——, see SEUFFERT, G. W., jt. auth.
Shunt: see also under Respiration
anotomic effect on physiologic deadsp[illegible]-to-tidal-volume ratio—a new equation (clinical workshop), **31**: 575
arteriovenous, silicone rubber, for induction of anesthesia with volatile anesthetics (Folkman & others), **29**: 410; (editorial) (Eger), **29**: 401
and atelectasis (editorial), **25**: 595
and atelectasis during spontaneous ventilation in anesthetized patients (Bendixen & others), **25**: 297
equation, simplified (clinical workshop), **30**: 468
physiologic, effects of major surgical operation (Colgan & Mahoney), **31**: 213
physiologic, relationship to cardiac output during anesthesia (Yamamura & others), **30**: 406
Sialadenopathy
during induction of anesthesia (clinical workshop), **29**: 1050
Sickle-cell anemia
effects of general anesthesia in (abstract), **29**: 193
Side Effects: see under specific agents and drugs
SIEBECKER, K. L. (with BAMFORTH, B. J.; STEINHAUS, J. E., and ORTH, O. S.), A clinical comparison of chloroform and halothane by a blind study technique, **21**: 273
——, BAMFORTH, B. J., KRAEMER, R., and ORTH, O. S., Ventricular tachycardia produced by metaraminol during cyclopropane anesthesia in dogs, **22**: 555
——, see BAMFORTH, B. J., jt. auth.
SIEGEL, J. H., The myocardial contractile state and its role in the response to anesthesia and surgery (review), **30**: 519
SIEWERS, R. DES, III, see CRANDELL, D. L., jt. auth.
SIGGAARD-ANDERSEN, O., and ENGEL, K., Acid-base debate (correspondence), **27**: 202
Sighing Device
automatic (current comment), **26**: 575

Siker, E. S., Wolfson, B., Ciccarelli, H. E., and Telan, R. A., Effect of subanesthetic concentrations of halothane and methoxyflurane on pain threshold in conscious volunteers, **28**: 337

——, Wolfson, B., and Stewart, W. D., Further experience with the earlobe aglesimeter (current comment), **27**: 88

——, Wolfson, B., Stewart, W. D., and Ciccarelli, H. E., The effects of fentanyl and droperidol, alone and in combination, on pain thresholds in human volunteers (clinical workshop), **29**: 834

——, Wolfson, B., Stewart, W. D. and Schaner, V. J., The earlobe aigesimeter. 2. The effect on pain threshold of certain pheothiazine derivatives alone or combined with meperidine (current comment), **27**: 497

——, see Wolfson, B., jt auth.

Silastic
see Rubber, silicone

Simpson, W. E., III, see Fink, B. R., jt. auth.

Singer, M. M., On the selection of respirators (editorial), **28**: 485

——, see Edelist, G., jt auth.

——, see Shnider, S. M., jt. auth.

Sinopoli, L. M., Water content of inhaled mists (correspondence), **31**: 193

Sircar, B. N., see Divekar, V. M., jt auth.

Sitter, S., see Epstein, R. A., jt auth.

Skin
blood flow during cyclopropane (Cullen & others), **31**: 398
cutaneous receptor responses during general anesthesia (de Jong & Nace), **28**: 851
cutaneous slough after extravasation of phenylephrine (current comment), **23**: 587
percutaneous loss of anesthetics (Stoelting & Eger), **30**: 278

Skolnik, S., see Helrich, M., jt. auth.

Skovsted, P., and Price, H. L., The effects of methoxyflurane on arterial pressure, preganglionic sympathetic activity and barostatic reflexes, **31**: 515

——, Price, M. L., and Price, H. L., The effects of halothane on arterial pressure, preganglionic sympathetic activity and barostatic reflexes, **31**: 507

——, see Heisterkamp, D. V., jt. auth.

——, see Paskin, S., jt. auth.

Skull
variations, significance in blocking maxillary nerve (Priman & Etter), **22**: 42

Slass, H. Marin, J., and Charles, E. U., Shoetester unlocks the door (current comment), **26**: 572

Slater, E. M., Nilson, S. E., Leake, D. L., Parry, W. L., Laver, M. B., Hedley-Whyte, J., and Bendixen, H. H., Arterial oxygen tension measurements during nitrous oxide-oxygen anesthesia, **26**: 642

——, Surtees, A. D., Tassie, J. A., and Todd, D. P., Anesthesia by remote control during radiation therapy (current comment), **24**: 112

——, see Laver, M. B., jt. auth.

Sleep
brain-stem mechanisms of (Zanchetti), **28**: 81
induction of by steroid hormones (Heuser), **2**:8 173
neurophysiology of anesthesia (Winters & others), **28**: 65
plus morphine, effect on respiratory response to carbon dioxide (Forrest & Bellville), **25**: 137

Sleight, P., see Bristow, J. D., jt auth.

Slocum, H. C., see Mazze, R. I., jt. auth.

Slough
cutaneous, after extravasation of phenylephrine (current comment), **23**: 587

Small, G. A., Aerosolization of drugs during inhalation anesthesia (current comment), **25**: 239

Smith, B. E., and Moya, F., Resuscitation of the depressed newborn (review), **26**: 549

——, see Moya, F., jt. auth.

Smith, D., see Cohen, E. N., jt. auth.

Smith, D. P., see Fabian, L. W., jt. auth.

Smith, G. W., see Smith, R. H., jt. auth.

Smith, J. C., see Ernst, E. A., jt. auth.

——, see Foldes, F. F., jt. auth.

Smith, J. D., Millen, J. E., Safar, P., and Robin E. D. Hemodynamic and respiratory changes during pulmonary lavage (abstract), **30**: 353

Smith, N. T., and Corbascio, A. N., The cardiovascular effects of nitrous oxide during halothane anesthesia in the dog, **27**: 560

——, and Corbascio, A. N., The hemodynamic effects of potassium infusion in dogs, **26**: 633

——, Eger, E. I., II, Kadis, L. B., and Cullen, D., The effect of hexamethonium on the catecholamine response to nitrous oxide in man (abstract), **30**: 352

——, and Hoffman, J. I. E., Evaluation of the circulation—pulmonary and otherwise—in man (editorial), **30**: 589

——, and Whitcher, C., Acute hemodynamic effects of methoxamine in man, **28**: 735

——, see Corbascio, A. N., jt. auth.

——, see Kadis, L. B., jt. auth.

——, see Richards, R. K., jt. auth.

Smith, R. A., and Conner, E. H., Experimental study of intrathecal detergents, **23**: 5

Smith, R. H., (current comment), **22**: 851

——, A device for positio.ing the prone patient (current comment), **25**: 87

——, Modified naso-gastric tube (current comment), **24**: 253

——, and Cullen, S. C., Electronarcosis by combination of direct and alternating current. 3. Electrodes and electrode holders, **23**: 682

——, and Cullen, S. C., One method of teaching anesthesia to medical students, **24**: 68

XUM

——, Goodwin, C., Fowler, E., Smith, G. W., and Volpitto, P. P., Electronarcosis produced by a combination of direct and alternating current. 1. A preliminary study, **22**: 163
——, Gramling, Z. W., Smith, G. W., and Volpitto, P. P., Electronarcosis by combination of direct and alternating current. 2. Effects on dog brain as shown by EEG and microscopic study, **22**: 970
——, Gramling, Z. W., and Volpitto, P. P., Problems related to the prone position for surgical operations, **22**: 189
——, Richards, R. K., Richter, W. R., Hylton, R. R., McCabe, J. R., and Cullen, S. C., Electrical anesthesia produced by combining direct and alternating currents; electronmicroscopy of the dog brain, **26**: 607
——, and Volpitto, Perry P. Halothane concentrations in clinical anesthesia, **21**: 1
Smith, R. M., Children, hospitals and parents, **25**: 461
——, Inhalational therapy in pediatrics (review), **23**: 548
Smith, R. M., Jr., Young, J. A., and Manheim, A., The SYM tourniquet (current comment), **25**: 573
Smith, S. L., Webb, W. R., Fabian, L. W., and Hagaman, V. D., Cardiac excitability in ether, cyclopropane and halothane anesthesia, **23**: 766
Smith, S. M., see Middleton, V., jt. auth.
Smith, T. C., Carbon monoxide accumulation (correspondence), **27**: 332
——, Conductive shoes (clinical workshop), **28**: 954
——, Editorial: toward better measurement (editorial), **30**: 125
——, Nitrous oxide and low inflow circle systems, **27**: 266
——, Rapid continuous measurement of mixed expired carbon dioxide concentration (laboratory notes), **29**: 1037
——, Serious explosion during cleaning of a copper kettle (letter to editor, clinical workshop), **29**: 386
——, The lumbar spine and subarachnoid block, **29**: 60
——, and DuBois, A. B., The effects of scopolamine on the airways of man, **30**: 12
——, Stephen, G. W., Zeiger, L., and Wollman, H., Effects of premedicant drugs on respiration and gas exchange in man, **28**: 883
——, see Alexander, S. C., jt auth.
——, see Askrog, V. F., jt. auth.
——, see Dunbar, B. S., jt auth.
——, see Forbes, A. M., jt. auth.
——, see Kallos, T., jt. auth.
——, see Nicodemus, H. F., jt. auth.
——, see Paskin, S., jt. auth.
——, see Price, H. L., jt. auth.
——, see Stephen, G. W., jt. auth.
——, see Wollman, H., jt. auth.
Smith, W. W., see Fuson, R. L., jt. auth.
——, see Stephen, C. R., jt auth.
Smotrilla, M. M., Nagel, E. L., and Moya, F., Failure of inflatable cuff resulting in foreign body in the trachea (current comment), **27**: 512
Sneddon, E. A., see Vanderveen, J. L., jt. auth.
Snell, M. McM., see Brand, L., jt. auth.
(John) Snow
early research on carbon dioxide (Foregger), **21**: 20
Snow, J. C., (current comment), **23**: 394
——, Complications with laryngectomy tube (current comment), **25**: 249
Sobel, A. M., (current comment), **22**: 492
——, "Intracath" unit for caudal anesthesia (current comment), **24**: 252
——, Obstructed endotracheal catheter (current comment), **25**: 581
Society of Military Anesthesiologists
announcement, **21**: 88
Soda Lime
contamination with methoxyflurane (current comment), **24**: 741
solubility in halothane (Eger & others), **23**: 356
Sodium
postoperative hyponatremia with inappropriate release of antidiuretic hormone (Deutsch & others), **27**: 250
transport in isolated toad bladder, effect of general anesthetics on (Andersen), **27**: 304
transport in toad bladder, synergistic effect of cyclopropane and epinephrine on (Anderson), **28**: 438
transport, nitrous oxide inhibition of (Gottlieb & Savran), **28**: 324
Sodium Bicarbonate
end epinephrine in cardiac resuscitation (abstract), **25**: 105
in cardiac resuscitation (abstract), **25**: 108
treatment of postoperative idionodal hypertension with (current comment), **28**: 226
Sodium citrate
in experimental hypercitremia (Corbascio & Smith), **28**: 510
Sodium Nitroprusside
clinical evaluation as hypotensive agent (Moraca & others), **23**: 193
Sodium Selenate
labeled with ^{75}Se, measurement of extracellular space with (abstract), **27**: 206
Sokoll, M., see Foldes, F. F., jt. auth.
Sokoloff, Louis, The effects of carbon dioxide on the cerebral circulation (Review), **21**: 664
Soloff, L. A., see Sutnick, A. I., jt auth.
Soloway, M., Nadel, W., Albin, M. S., and White, R. J., The effect of hyperventilation on subsequent cerebral infarction, **29**: 975
Solubility Coefficients
anesthetic gases in various fluids and tissues (Larson & others), **23**: 686
diethyl ether (current comment), **25**: 247
diethyl ether: in water, blood and oil, **24**: 676
divinyl ether (current comment), **25**: 406

fluroxene: in blood and tissue homogenates, **25**: 638
halothane: in blood and tissue homogenates, **23**: 349
halothane: in rubber, soda lime and plastics, **23**: 356
methoxyflurane: in human blood and tissue homogenates, **24**: 625
methoxyflurane: in plastic (current comment), **26**: 828
methoxyflurane: in rubber, **24**: 679
nitrous oxide: in water (laboratory methods), **26**: 675
nitrous oxide: in water and canine blood, **25**: 59
of teflurane in various biological media (Edelist & others), **25**: 223
Somatic Reflexes: see Reflexes, somatic
SOMJEN, G., Effects of anesthetics on the spinal cords of mammals, **28**: 135
SONG, Y., see DOBKIN, A. B., jt. auth.
Sparine: see Promazine
Spasticity
nerve stimulator for isolated block of musculocutaneous and perineal nerves in (current comment), **28**: 219
peripheral nerve block with dilute phenol solutions in treatment of (abstract), **26**: 254
upper extremity, brachial plexus infiltration with dilute phenol solution in management of (current comment), **27**: 87
Species
differences, computers (editorial) (Mark), **27**: 113
Spectometry
infrared, determination of halothane-ether ratios by (abstract), **23**: 143
Spectrophotometer
method for analysis of blood ether tensions (abstract), **21**: 94
SPEER, D. L., (current comment), **22**: 123
SPENCE, M., The emergency treatment of acute respiratory failure (review), **23**: 524
SPENCER, E. L., JR., see GREENE, N. M., jt. auth.
SPENCER, W. A., see GEDDES, L. A., jt. auth.
SPIELBERGER, L., see IMPARATO, A. M., jt. auth.
Spinal Analgesia: see Anesthesia, spinal; also under Spinal Hemianalgesia
Spinal Anesthesia: see Anesthesia, spinal
Spinal Anesthetics: see Anesthetics, spinal
Spinal block
position of plastic tubing in continuous-block techniques (clinical workshop), **29**: 1047
Spinal canal
human, construction of a model (clinical workshop), **29**: 939
model, study of osmolality and density of spinal anesthetic solutions in (Ernst), **29**: 104
Spinal cord
cordotomy, percutaneous cervical, effect on pulmonary function (Tenicela & others), **29**: 7
distribution of local anesthetics in canine neuraxis (Cohen), **29**: 1002
effect of hemorrhagic hypotension on evoked potentials in (abstract), **22**: 147
effects of anesthetics on mammalian (Somjen), **28**: 135
effects of experimental subarachnoid perfusion cooling and rewarming on (abstract), **23**: 139
functional organization of (Eccles), **28**: 31
histologic changes in, following subarachnoid alcohol block (abstract), **21**: 104
monosynaptic transmission in cat as measure of anesthetic dose (de Jong & Robles), **29**: 887
Spinal Drainage
controlled, new needle for (current comment), **25**: 240
Spinal fluid
study of osmolality and density of anesthetic solutions in (Ernst), **29**: 104
Spinal Hemianalgesia
evaluation of method, applicability, and influence on incidence of hypotension (Tanasichuk & others), **22**: 74
Spinal Needles: see Needles
Spinal reflexes
effect of methoxyflurane (abstract), **23**: 158
hyperventilation effects on (Kitahata & others), **31**: 321
response measurement during general anesthesia in man (de Jong & others), **28**: 382
Spine
cervical, ankylosing spondylitis of, endotracheal intubation in patient with (current comment), **26**: 365
lumbar, and subarachnoid block (Smith), **29**: 60
Spirometer
Wright, calibration (current comment), **23**: 126, 718
Spirometry
measurement of oxygen consumption during halothane anesthesia (laboratory methods) (Theye & Messick), **29**: 361
Spironolactone
inhibition of anesthetics and sedative actions (Selye & others), **31**: 261
Splanchnic: see Viscera
Spondylitis
ankylosing of cervical spine, endotracheal intubation in patient with (current comment), **26**: 365
SPOONER, C. E., see WINTERS, W. D., jt. auth.
SPROUSE, J. H., and BOSOMWORTH, P. P., Thermometer for K-pad (current comment), **27**: 863
——, (with HAMELBERG, W.; MAHAFFEY, J. E., and RICHARDSON, J. A.), Catechol amine levels during light and deep anesthesia, **21**: 297
——, see MAHAFFEY, J. E., jt. auth.
STANDAERT, F. G., see RAYMOND, L. W., jt. auth.
STANDER, H., see MOORE, D. C., jt. auth.
STANELL, R. E., see HORNBEIN, T. F., jt. auth.
STANLEY, V. F., GIESECKE, A. H., JR., and JENKINS, M. T., Neomycin-curare neuromuscular block and reversal in cats, **31**: 228
STAPP, I. P., JR., see MORROW, D. H., jt. auth.
STARMER, C. F., see FUSON, R. L., jt. auth.

XUM

STARR, A. (with UNDERWOOD, R. J., and ROTH, J. C.), The influence of anesthetic technique on oxygen consumption during total cardiopulmonary bypass, **21**: 263
Statistics
for the anesthesiologist (special article) (Mahler), **28**: 749
STAUB, N. C., The interdependence of pulmonary structure and function (review), **24**: 831
STAUFFER, W. M., see GRAVES, C. L., jt. auth.
STEIBLER, H. J., see WESTGATE, H. D., jt. auth.
STEINBERG, B. L., and LONDON, S. B., Automated blood pressure monitoring during surgical anesthesia (current comment), **27**: 861
STEINHAUS, J. E. (with BAMFORTH, B. J.; SEIBECKER, K. L., and ORTH, O. S.), A clinical comparison of chloroform and halothane by a blind study technique, **21**: 273
——, BEVAN, W. WEBB, S. C., and THOMPSON, W. R., JR., Evaluation of analgesics by the rating of patient behavior, **25**: 64
——, and GASKIN, L. A study of intravenous lidocaine as a suppressant of cough reflex, **24**: 285
STEINKE, J., see MARBLE, A., jt. auth.
Stellate ganglion block: see also Nerve block, stellate ganglion
perforation of right lymphatic duct with (case report) (current comment), **22**: 849
Stenosis, nasopharyngeal (clinical workshop), **31**: 480
STEPHEN, C. R., Postoperative temperature changes (review), **22**: 795
——, DENT, S. J., and SMITH, W. W., Physiologic reactions during profound hypothermia with cardioplegia, **22**: 873
——, and DUVOISIN, P. M., Laboratory and clinical experiences with glutethimide, **21**: 482
——, and NORTH, W. C., Halopropane—a clinical evaluation, **25**: 600
——, see AHLGREN, E. W., jt. auth.
——, see GUTSCHE, B. B., jt. auth.
——, see HARP, J. R., jt. auth.
——, see KNOX, P. R., jt. auth.
STEPHEN, G. W., BANNER, M. P., WOLLMAN, H., and SMITH, T. C., Respiratory pharmacology of mixtures of scopolamine with secobarbital and with fentanyl, **31**: 237
——, see DEUTSCH, S., jt. auth.
——, see SMITH, T. C., jt. auth.
STEPT, W. J., and SAFAR, P., Cardiac resuscitation following two hours of cardiac massage and 42 countershocks (current comment), **27**: 97
Sterilization (Bacterial): see Asepsis
Sterilization
cold, contamination during (current comment), **22**: 637
ethylene oxide (correspondence), **27**: 703
experience with gas (absolute) sterilized endotracheal tubes (abstract), **21**: 103
gas, inexpensive and satisfactory method for anesthetic equipment (current comment), **27**: 95
Steroid hormones
induction of anesthesia, seizures and sleep by (Heuser), **28**: 173
Steroid therapy
for postintubation subglottic edema in infants and children (Deming & Oech), **22**: 933
in acid pulmonary aspiration syndrome (Mendelson's syndrome) (Taylor & Pryse-Davies), **29**: 17
Stethoscope
precordial electrocardiograph (current comment), **26**: 228
simple esophageal (current comment), **22**: 642
STETSON, J. B., Anesthesiology and obstetrics (correspondence), **27**: 101
——, The Emerson postoperative ventilator (letter to editor, clinical workshop), **29**: 849
STEVENS, H. R., and ALBREGT, H. B., Assessment of ultrasonic nebulization, **27**: 648
STEVENS, W. C., GOSSETT, J. A., HAMILTON, W. K. and MOREHEAD, R. T., The relation of postoperative atelectasis to the solubility of gas filling the lungs at termination of anesthesia, **27**: 163
——, see EGER, E. I., II, jt. auth.
——, see JOAS, T. A., jt. auth.
——, see WAUN, J., jt. auth.
STEWART, D. M., ROGERS, W. P., MAHAFFEY, J. E., WITHERSPOON, S., and WOODS, E. F., Effect of local anesthetics on the cardiovascular system of the dog, **24**: 620
STEWART, W. D., see SIKER, E. S., jt auth.
STIER, A., The biotransformation of halothane (correspondence), **29**: 388
——, see REHDER, K., jt. auth.
Stimulants; see also under names of specific agents
doxapram as respiratory (Sanchez-Salazar & others), **24**: 808
respiratory (editorial), **21**: 214; (current comment), **21**: 437
Stimulator
nerve (current comment), **27**: 511
STOELTING, R. K., and EGER, E. I., II, An additional explanation for the second gas effect: a concentrating effect, **30**: 273
——, EGER, E. I., II, Percutaneous loss of nitrous oxide, cyclopropane, ether and halothane in man, **30**: 278
——, and EGER, E. I., II, The effects of ventilation and anesthetic solubility on recovery from anesthesia: an *in vivo* and analog analysis before and after equilibrium, **30**: 290
——, see STOELTING, V. K., jt. auth.
STOELTING, V. K., STOELTING, R. K., and GRUBER, C. M., Comparison of analgesic and side effects of parenteral *d*-propoxyphene and meperidine, **23**: 21
——, (with TAYLOR, C.), Methohexital sodium–a new ultrashort acting barbiturate, **21**: 29
——, see DEFALQUE, R. J., jt. auth.
——, see TAYLOR, C., jt. auth.

Stomach
aspiration of gastric juice—physiologic alterations (abstract), **26**: 241
effects of halothane on gastrointestinal motility (Marshall & others), **22**: 363
modified naso-gastric tube (current comment), **24**: 253
STONE, H. H., and DONNELLY, C. C., The accidental intra-arterial injection of thiopental (review), **22**: 995
——, and DONNELLY, CELESTE C., The anesthetic significance of serotonin secreting carcinoid tumors (Review), **21**: 203
STONER, T. R., JR., and URBACH, K. F., Cardiac arrhythmias associated with succinylcholine in a patient with pheochromocytoma (clinical workshop), **29**: 1228
——, see SEUFFERT, G. W., jt. auth.
——, see SHOUKAS, J. A., jt. auth.
STRESEMANN, E., Functional reduction of anatomical deadspace in the management of acute alveolar hypoventilation (clinical workshop), **28**: 941
——, Influence of various pressure and flow rate settings of pressure-cycled respirators on minute volumes, expiratory P_{O_2} and P_{CO_2} of normal men during IPPB (clinical workshop), **28**: 1096
STRICKLAND, D. A. P., see LEIGH, J. M., jt. auth.
STRIKER, T. W., see DOWNES, J. J., jt. auth.
STRONG, M. J., and KEATS, A. S., Digitalis and heart disease (correspondence), **31**: 583
——, and KEATS, A. S., Induced hypothermia following cerebral anoxia, **28**: 920
——, KEATS, A. S., and COOLEY, D. A., Anesthesia for cardiovascular surgery in infancy, **27**: 257
——, LUBKAN, C. P., and KEATS, A. S., Cyclopropane-carbon dioxide arrhythmic threshold in patients with cardiovascular disease, **29**: 295
——, see KEATS, A. S., jt. auth.
STRUNK, H. A., (current comment), **23**: 271
STUBBS, J., see EISELE, J. H., jt. auth.
Subarachnoid block: see under Anesthesia
Subarachnoid Space
effects of sustained perfusion cooling of (Albin & others), **24**: 72
transfer of local anesthetics to, and mechanisms of epidural block (Usubiaga & others), **25**: 752
Subdural Space
in spinal anesthesia (current comment), **24**: 869
Substrates
effects on contractility of rat atria depressed with halothane (Ko & Paradise), **31**: 532
Succinylcholine (suxamethonium): see also under Muscle Relaxants
administration in burned patient (current comment), **27**: 494
administration in cancer patients receiving AB-132, prolonged apnea following (abstract), **24**: 142; (Wang & Ross), **24**: 363
and cardiac excitability (Galindo & Davis), **23**: 32
burned patients, danger in use for (current comment), **28**: 467
burned patients, use for (correspondence), **28**: 234
(cardiac arrhythmias associated with in a patient with pheochromocytoma (clinical workshop), **29**: 1228
changing pattern of neuromuscular blockade caused by (Crul & others), **27**: 729
clinical studies of (Walts & Dillon), **28**: 372
-cyclopropane anesthesia, intravenous atropine and scopolamine during (Colón-Yordán & Jiménez-Vélez), **23**: 333
decamethonium and, neuromuscular block in man (de Jong & Freund), **28**: 583
decamethonium and neuromuscular block with (correspondence), **29**: 166
dual, phase II or desensitization block? (Churchill-Davidson & Katz), **27**: 536
effect of intravenously administered, upon cardiac rate and rhythm (Barreto), **21**: 401
effect of tetracaine on libration of potassium by (abstract), **30**: 353
effect on intraocular pressure during general anesthesia (Craythorne & others), **21**: 59
effect on serum potassium in man (abstract), **29**: 214
effects on oxygen consumption (Muldoon & Theye), **31**: 437
fasciculation, prevention with local anesthetics (Wikinski & others), **26**: 3; (correspondence), **26**: 696
hydrolysis (medical intelligence) (Litwiller), **31**: 356
hydrolysis by placental homogenates (Moya & Margolies), **22**: 11
hyperkalemia and cardiovascular collapse following administration to the traumatized patient (Mazze & others), **31**: 540
incidence and prevention of muscle pain following administration of (Lamoreaux & Urbach), **21**: 394
interaction with procaine (laboratory notes) (Salgado), **29**: 1040
intramuscular (Vanderveen & others), **24**: 765
intramuscular, influence of solvent on myoneural effects (Foldes & others), **23**: 213
intraocular pressure produced by, effects of hexafluorenium on (Katz & others), **29**: 70
intraocular pressure produced by, effects on nondepolarizing muscle relaxants on (Miller & others), **29**: 123
intravenous, effects on cardiac rate, rhythm, and arterial blood pressure in anesthetized man (Williams & others), **22**: 947
latency and duration of action (abstract), **27**: 229
neuromuscular block (correspondence), **28**: 791
neuromuscular blockade in children (Nightingale & others), **27**: 736
neuromuscular blocking actions of, effects of hexafluorenium and edrophonium (Katz & others), **26**: 154
neuromuscular effects of diethyl ether and its interaction with (Katz), **27**: 52

newborn's response to (Walts & Dillon), **31**: 35
nondepolarizing neuromuscular blocking action of (Katz & others), **24**: 784
muscle rigidity following administration (clinical workshop), **29**: 159
placental thresholds to (Kvisselgaard & Moya), **22**: 7
placental transmission of (Moya & Kvisselgaard), **22**: 1
potentiation by procaine (Salgado), **22**: 897
potentiation of neuromuscular effect of, by hexafluorenium (Foldes & others), **21**: 50
prolonged apnea from succinylcholine, relation to plasma cholinesterase (Foldes & others), **24**: 208
prolonged arterial infusion, neuromuscular block during (Gissen & others), **27**: 242
protective effects of in hemorrhage (abstract), **29**: 178
story (editorial), **24**: 761
transmission across placenta (abstract), **21**: 110
use in anesthetized children, changes in pulse rate and rhythm associated with (Craythorne & others), **21**: 465

Succinyldicholine
and succinyl*mono*choline, ^{14}C-labeled, kinetics of distribution (Dal Santo), **29**: 435
-induced arrhythmias (Schoenstadt & Whitcher), **24**: 358

Succinyldicholine Esterase
activity in stored citrated blood (Fromberg & others), **21**: 64

Suction
apparatus, small volume (current comment), **25**: 400
device for (current comment), **24**: 876
effect on arterial oxygen saturation (Downes & others), **22**: 29
endotracheal, avoidance of hypoxemia during (clinical workshop), **31**: 473
intermittent vacuum regulator (current comment), **21**: 773
tip and hose, clamp for holding (current comment), **25**: 572
tracheal in infants, atelectasis following (clinical workshop), **31**: 468
tubing capacity (current comment), **25**: 710

SUEMATSU, K., see FOLKMAN, J., jt. auth.

SUGAI, N., SHIMOSATO, S., and ETSTEN, B. E., Effect of halothane on force-velocity relations and dynamic stiffness of isolated heart muscle, **29**: 267

——, see SHIMOSATO, S., jt. auth.

SUGIOKA, K., and DAVIS, D. A., Hyperventilation with oxygen—a possible cause of cerebral hypoxia, **21**: 135

——, DAVIS, D. A., HINTERNHOFF, M. MCKNIGHT, R. L., and GROSSKREUTZ, D. C., Oxygen and carbon dioxide tensions as factors in respiration after apnea from hyperventilation, **23**: 776

——, and GROSSKREUTZ, D. C., Failure of the peripheral vascular circulation (review), **22**: 759

——, see DAVIS, D. A., jt. auth.

SUGIYAMA, R., see ROBSON, J. G., jt. auth.

Sulfamylon
in burns, carbonic anhydrase inhibition following (abstract), **29**: 207

Sulfur hexafluoride
anesthetic potency (Eger & others), **30**: 129

SULLIVAN, C., see SCHWEIZER, O., jt. auth.

SULLIVAN, S. F., and PATTERSON. R. W., Post-hyperventilation hypoxia: theoretical considerations in man, **29**: 981

——, see PATTERSON, R. W., jt. auth.

——, see SALVATORE, A. J., jt. auth.

SUMMERS, F. W., (current comment), **22**: 496, 498, 848

——, and ADRIANI, J., Gas chromatography: an analytical method for anesthesiology research, **22**: 100

——, see ROBINSON, A., jt. auth.

SUNSHINE, I., see MAES, R., jt. auth.

SUNTAY, R., see LEAR, E., jt. auth.

Surfactants: see also under Lungs
effects of wetting and antifoaming agents (Modell & others), **30**: 164
pulmonary, and atelectasis (Sutnick & Soloff), **25**: 676

Surgery: see also under names of specific organs and procedures
acid-base equilibrium during cyclopropane anesthesia and operation in infants (Reynolds), **27**: 127
adrenal cortical hyperfunction, preoperative and postoperative management (review) (Cahill & Thorn), **24**: 472
anesthesia and Rauwolfia (Katz & others), **25**: 142
anesthetic time-dose curves, influence of respiratory parameters upon intravenous drug requirements during (Keéri-Szanto & Leduc), **23**: 231
cleft lip-palate malformation, anesthetic management of child with (Salanitre & Rackow), **23**: 610
clinical experience with electronarcosis for (abstract), **23**: 145
complications of, blindness after lumbosacral fusion (current comment), **21**: 777
complications related to body positions during (review) (Lincoln and Sawyer), **22**: 800
cryproteinemia and hyperheparin states, role in bleeding during and after hypothermic operations (abstract), **24**: 141
diethyl ether anesthesia and, plasma levels of ACTH and cortisol during (Oyama & others), **29**: 559
effects of ether and halothane on blood during (Schweizer & others), **28**: 814
effects on blood viscosity (Boyan & others), **27**: 279; (abstract), **27**: 208
effects on postoperative sore throats of two analgesics and lubricants used with endotracheal tubes (current comment), **26**: 681
electrocardiogram during (Cannard & others), **21**: 194

embolic phenomena of (review) (Patrick & Devloo), **22**: 751
emotional responses of patients to anesthesia and (Sheffer & Greifenstein), **21**: 502
for hyperthyroidism, pharmacologic, physiologic and therapeutic considerations in (review) (Selenkow & Hollander), **24**: 425
guiding the diabetic patient: phramacology and physiology in diabetes mellitus (review) (Marble & Steinke), **24**: 442
hepatic and renal effects of methoxyflurane in patients (abstract), **26**: 257
hyperparathyroidism and hypoparathyroidism: preoperative and postoperative care (review) (Bernstein & Guri), **24**: 448
in infant, induced hypotension for (current comment), **27**: 701
increased physiologic shunting during anesthesia and (abstract), **24**: 122
infants, postoperative renal excretion of water (abstract), **21**: 99
intracardiac (editorial), 22: 485
major, disturbances in acid-base balance during (Schweizer & Howland), **24**: 158
management in pheochromocytoma (review) (Goldfien), **24**: 462
match test as aid to preoperative pulmonary evaluation (current comment), **25**: 391
open intracardiac, anesthetic management (Theye & others), **23**: 823
patients, circulatory changes due to open pneumothorax in (Li & others), **21**: 171
pneumothorax, effects of pulmonary ventilation (Bonica & others), **22**: 955
postoperative complications: see Anesthesia, postanesthetic complications
postoperative distress in children (abstract), **22**: 145
postoperative nausea and vomiting (Bellville & others), **21**: 186
postoperative patient, respiratory efficiency in (abstract), **21**: 93
postoperative pulmonary function, narcotics and (abstract), **26**: 258
postoperative respiratory adequacy, effects of nitrous oxide-curare, ether and cyclopropane on (Boutros), **26**: 743
postoperative ventilation, comparison of five methods of increasing (clinical workshop), **29**: 1212
postoperative ventilation studies in recovery room (abstract), **21**: 109
preoperative use of antiemetics (editorial), **21**: 213
problems of hemophiliac during (review) (Pechet & Glaser), **27**: 399
prone position for, problems of (Smith & others), **22**: 189
prostatic resection, fluid absorption during (abstract), **23**: 152
relaxation, use of toxeferine for production of (Foldes & others), **22**: 93; (correction), **22**: 854
relaxation, use of trimethylammoniumcaproylcholine for maintenance of (Foldes & others), **25**: 173
renal effect of, mediated by endocrines (review) (Hayes & Goldenberg), **24**: 487
renal homotransplantation, anesthetic aspects (Vandam & others), **23**: 783
resection of aortic coarctation under halothane anesthesia, increased incidence of paradoxical hypertension following (abstract), **22**: 132
skeletal muscle, esophageal and rectal temperatures during general anesthesia and (Wollman & Cannard), **21**: 476
thoracic, anesthesia for (editorial) (Bendixen), **28**: 649
thoracic, arterial blood oxygenation during thoracotomy using nitrous oxide-oxygen (Boutros & Weisel), **28**: 708
transurethral, complication associated with (Marx & Orkin), **23**: 802
transurethral, local hypothermia of urinary bladder during (Franks & Cockett), **22**: 15
use of dextrans in (review) (Atik), **27**: 425
Surgical operation, major effects on cardiac output and shunting (Colgan & Mahoney), **31**: 213
SURKS, S., see EPSTEIN, J. A., jt. auth.
SURTEES, A. D., see SLATER, E. M., jt. auth.
SUTHERLAND, V. C., see WAY, E. L., jt. auth.
SUTNICK, A. I., and SOLOFF, L. A., Pulmonary surfactant and atelectasis, **25**: 676
SUWA, K., and BENDIXEN, H. H., The inspiratory force measurement using the anesthesia circuit (current comment), **28**: 209
——, GEFFIN, B., PONTOPPIDAN, H., and BENDIXEN, H. H., A nomogram for deadspace requirement during prolonged artificial ventilation (clinical workshop), **29**: 1206
——, YAMAGUSCHI, Y., and YAMAMURA, H., Arterial-alveolar CO_2 gradient after cardiac resuscitation in the dog, **30**: 37
Suxamethonium: see Succinylcholine
SUZUKI, Y. O., see MOTOYAMA, E. K., jt. auth.
SWARZ, H., see Modell, J. H., jt. auth.
Sweating
and anesthesia, causes the effects (Linton), **22**: 56
SWEENEY, D. F., and GARRISON, F. W., Portable intermittent positive pressure breathing apparatus (current comment), **27**: 508
——, and GARRISON, F. W., Portable IPPB with the Stryker Frame (clinical workshop), **28**: 626
SWEET, R. B., see BRODY, G. L., jt. auth.
——, see CORSSEN G., jt. auth.
SWEIGERT, R. L., BARNES, A. M., and PORTER, W.E., The readers of ANESTHESIOLOGY; profile of an audience (special article), **22**: 834
SWEITZER, R. S., see WAUN, J. E., jt. auth.
SWISHER, S. N. (with CHAPLIN, H.), Protection against transfusion reactions (Editorial), **21**: 431

XUM

SWYER, P. R., and LEVISON, H., Pathophysiology and management of bronchiolitis (editorial), **29**: 403
SY, W. P., and HASBROUCK, J. D., Solubility of nitrous oxide in water and in canine blood, **25**: 59
Sympathectomy, lumbar
relief of arterial spasm by epidural block following (clinical workshop), **28**: 1107
Sympathetic block
effects of diethyl ether on P_{aCO_2} in dogs with [Muallem & others), **30**: 185
Sympathetic ganglia, halothane effects on responses (Alper & others), **31**: 429
Sympathetic Nervous System: see Nervous System, sympathetic
Sympathomimetic Amines: see also under specific compounds
and methylxanthines inducing cardiac arrhythmias, relationship between (Ueda & others), **22**: 926
Symposium on design and function of the operating suite and special areas, **31**: 103
Symposium on Maternal and Fetal Physiology (report of meeting) (Hehre), **29**: 1235
Synaptic transmission
depression as measurement of anesthetic potency (de Jong & others), **29**: 1139
effects of halothane and nitrous oxide (de Jong & others), **31**: 205
facilitation by lidocaine (de Jong & others), **30**: 19
Syncurine: see Decamethonium
Syringe
holder, clip-type (current comment), **26**: 684
multipurpose holder (current comment), **24**: 397
with self-retaining plunger (current comment), **22**: 319

T

Tachycardia, paroxysmal, during adrenalectomy for Cushing's syndrome (clinical workshop), **30**: 574
Tachyphylaxis
to decamethonium and reversibility by anticholinesterase drugs (Freund), **30**: 7
to local anesthetic agents, role of *p*H in development (Cohen & others), **29**: 994
Tachypnea
during anesthesia, failure of Hering-Breuer reflex to account for (Paskin & others), **29**: 550
during anesthesia, mechanism of (editorial) (Ngai), **29**: 408
TAKAHASHI, T., see KOSAKA, Y., jt. auth.
TAKAMURA, J., see BONICA, J. J., jt. auth.
TAKEBE, Y., see YAMAMURA, H., jt. auth.
TAKESHITA, H., see MUNEYUKI, M., jt. auth.
TALLARIDA, R. J., see RUSY, B. F., jt. auth.
TALMAGE, E. A., Modified cannula for tracheal sprag (current comment), **25**: 86
TAMERSOY, K., see EGBERT, L. D., jt. auth.
TANAKA, R., FUJIMORI, M., and VIRTUE, R. W., Oxygen utilization by dogs after administration of potassium percholorate, during hypothermia, and at a pressure of 2 atmospheres, **22**: 20
TANAKA, R., see VIRTUE, R. W., jt. auth.
TANASICHUK, M. A., SCHULTZ, E. A., MATTHEWS, J. H., and VAN BERGEN, F. H., Spinal Hemianalgesia: an evaluation of a method, its applicability, and influence on the incidence of hypotension, **22**: 74
TANTUM, K. R., Comparison of nasal catheter and nasal cannula in patients recovering from general anesthesia (clinical workshop), **31**: 376
Tape Recording
data, use as teaching aid (current comment), **26**: 679
TARHAN, S., see MOFFITT, E. A., jt. auth.
TASHIRO, M., and WAKAI, I., An automatic nonrebreathing valve of new design (current comment), **26**: 232
TASSIE, J. A., see SLATER, E. M., jt. auth.
TAUB, A., see KITAHATA, L. M., jt. auth.
TAYLOR, C., and STOELTING, V. K., Methohexital sodium—a new ultrashort acting barbiturate, **21**: 29
——, WILSON, F. M., ROESCH, R., and STOELTING, V. K., Prevention of the oculocardiac reflex in children: comparison of retrobulbar block and intravenous atropine, **24**: 646
TAYLOR, G., and PRYSE-DAVIES, J., Evaluation If endotracheal steroid therapy in acid pulmonary aspiration syndrome (Mendelson's syndrome), **29**: 17
Teaching: see also Education
A.S.A. Workshop on (report of meeting), **28**: 1112
Technology
medicine and man (editorial) (Bartholomay), **27**: 1
Teflurane
solubility coefficients in various biological media (Edelist & others), **25**: 223
TEJADA, V., see PAREDES R., jt. auth.
TELAN, R. A., see SIKER, E. S., jt. auth.
Telemetry
radio, in patient monitoring (current comment), **22**: 1010
Television in hopsitals (symposium article) (Merrill & Litke), **31**: 156
TELFORD, J. and KEATS, A. S., Narcotic-narcotic antagonist mixtures (review), **22**: 465
——, see KEATS, A. S., jt. auth.
TEMTE, J. V., HELMER, P. R., and DAVIS, L. D., Effects of calcium and cyclopropane on Purkinje fibers, **27**: 354
——, see DAVIS, L. D., jt. auth.
Temperature: see also Fever; Hypothermia; Hypothermia; Normothermia
body, autonomic regulation of (Hemingway & Price), **29**: 693
body, effect on anesthetic blood levels of halothane (abstract), **27**: 217
dependence of halothane and cyclopropane anesthesia in dogs, correlation with theories of anesthetic action (Eger & others), **26**: 764

environmental cold and man (Andrews & Orkin), **25**: 549
high, bodily reactions to (Wakim), **25**: 532
homeostasis in fetus and newborn (review) (Adamsons & Towell), **26**: 531
postoperative changes (review) (Stephen), **22**: 795
recording, calibrating device for (current comment), **26**: 110
TENICELA, R., ROSOMOFF, H. L., FEIST, J., and SAFAR, P., Pulmonary function following percutaneous cervical cordotomy, **29**: 7
——, see SAFAR, P., jt. auth.
TENNEY, S. M., The effect of carbon dioxide on neurohumoral and endocrine mechanisms (Review), **21**: 674
Tensilon: see Edrophonium
Tent: see under Oxygen
Teratogenicity
(editorial), **24**: 268
investigation of effects of anesthetic agents: fluorinated agents (abstract), **26**: 260
Teratology
comparative (editorial) (Mellin), **29**: 1
teratogenicity of cyclopropane in the chicken (Andersen), **29**: 113
teratogenicity of halothane in rats (abstract), **29**: 173; (Basford & Fink), **29**: 1167
TERRY, H. R., JR., see MICHENFELDER, J. D., jt. auth.
TERRY, R. N., see VIFUERA, M. G., jt. auth.
Tetanus
active management based on experiences of anesthesiology department (review) (Jenkins & Luhn), **23**: 690
as index of nerve-muscle block (Gissen & Katz), **30**: 481
Tetracaine
spinal anesthesia with, determination of sensory and motor levels after (Walts & others), **25**: 634
Tetracaine Hydrochloride (Pontocaine)
local anesthetic activity of partially hydrolyzed solutions (VanDeripe & Yim), **21**: 26
Tetralogy of Fallot
increased cyanosis due to positive pressure respiration (abstract), **27**: 217
ventilatory alterations associated with operation for (Nicodemus & Downes), **31**: 265
THAM (2-Amino-2-Hydroxymethyl-1,3-Propanediol
effects of, used with normal acid-base balance and with respiratory acidosis and alkalosis during anesthesia (abstract), **23**: 158
effects on cerebrospinal fluid pressure during apneic oxygenation (abstract), **21**: 105
effects on intracranial hypertension of hypercapnic acidosis (abstract), **22**: 134
Therapy: see also under specific procedures and agents
analeptics, outmoded in barbiturate poisioning (editorial), **23**: 713
aspects of aspiration pneumonitis in experimental animals (Bannister & others), **22**: 440
inhalational, advances and retreats (Barach, **22**: 367
inhalational: see also Inhalational Therapy
Thermometer
for K-pad (current comment), **27**: 863
THEYE, R. A., Blood O_2 content measurement using the O_2 electrode (clinical workshop), **28**: 773
——, Chromatographic analysis of expired air containing halothane, **25**: 75
——, Estimation of partial pressure of halothane in blood, **29**: 101
——, Myocardial and total oxygen consumption with halothane, **28**: 1042
——, The determination of O_2 and CO_2 content in blood containing halothane (laboratory methods), **25**: 325
——, and MESSICK, J. M., JR., Measurement of oxygen consumption by spirometry during halothane anesthesia (laboratory methods), **29**: 361
——, and MICHENFELDER, J. D., The effect of halothane on canine cerebral metabolism, **29**: 1113
——, and MICHENFELDER, J. D., The effect of nitrous oxide on canine cerebral metabolism, **29**: 1119
——, MILDE, J. H., and MICHENFELDER, J. D., Effect of hypocapnia on cardiac output during anesthesia, **27**: 778
——, MOFFITT, E. A., and KIRKLIN, J. W., Anesthetic management during open intracardiac surgery, **23**: 823
——, REHDER, K., QUESADA, R. S., and FOWLER, W. S., Measurement of cardiac output by an indicator-dilution method, **25**: 71
——, and SESSLER, A. D., Effect of halothane anesthesia on rate of canine oxygen consumption, **28**: 661
——, and TUOHY, G. F., Hemodynamics and blood volume during operation with ether anesthesia and unreplaced blood loss, **25**: 6
——, and TUOHY, G. F., Oxygen uptake during light halothane anesthesia in man, **25**: 627
——, and TUOHY, G. F., The value of venous oxygen levels during general anesthesia, **26**: 49
——, see ALTENBURG, B. M., jt. auth.
——, see MICHENFELDER, J. D., jt. auth.
——, see MULDOON, S. M., jt. auth.
Thiamylal
intravenous for cesarean section (Kosaka & others), **31**: 489
THIBEAULT, D. W., see MITHOEFER, J. C., jt. auth.
Thiobarbiturates
intravenous for cesarean section (Kosaka & others), **31**: 489
Thiohexital
distribution and metabolism (correspondence) (Crawford; Mark & others), **31**: 384
studies with (Mark & others), **29**: 1159
Thiopental (Pentothal)
accidental intra-arterial injection of thiopental (review) (Stone & Donnelly), **22**: 995

action in rats, influence of corn oil, heparin and albumin (Winters & others), **23**: 27
acute tolerance in canine cerebral oxygen consumption studies (Altenburg & others), **31**: 443
and porphyria (correspondence), **27**: 703
anesthesia, effect of vanillic diethylamid (abstract), **21**: 90
anesthesia, potentiation by derivatives and analogues of phenothiazine (Dobkin), **21**: 292
-cyclopropane anesthesia, effect of reserpine on cardiac function during (abstract), **24**: 140
-cyclopropane anesthesia in dog, effect of reserpine on cardiac function during (Rusy & others), **26**: 14
dynamic concept of distribution in human body (Price), **21**: 40
effect of anesthesia with on blood constituents (abstract), **29**: 208
effect of hemorrhage on plasma concentration (abstract), **24**: 123
effect on baroreflex control of heart rate (Bristow & others), **31**: 422
effect on bleeding volume variations in dogs (Marcus & others), **23**: 671
effect on human cerebral evoked responses (Abrahamian & others), **24**: 650
effect on sodium transport in toad bladder (abstract), **30**: 335
effect on tracheal smooth muscle (Fletcher & others), **29**: 517
effects on peripheral venous tone (Eckstein & others), **22**: 525
effects on subcortical mechanisms in temporal lobe epilepsy (Brazier), **28**: 192
in localizing diseased brain tissue (medical intelligence (Brazier), **31**: 78
induced sleep, prolongation in dogs by narcotic analgesics (Dobkin), **22**: 291
induction, cerebral circulation during (Wollman & others), **26**: 329
infusion in dogs, effects of digoxin pretreatment on heart contractile force during (Goldberg & others), **22**: 974
intravenous for cesarean section (Kosaka & others), **31**: 489
metabolic breakdown of, determined by gas chromatographic analysis of serum barbiturate levels (Furano & Greene), **24**: 796
metabolism, effect on duration of anesthesia (Saidman & Eger), **27**: 118
plasma concentrations in newborn following delivery under thiopental-nitrous oxide anesthesia (abstract), **25**: 94
reaction to (current comment), **23**: 271
safety of in cesarean section (abstract), **29**: 190
system for administration (current comment), **21**: 566
tissue concentrations in newborn (abstract), **28**: 248
transient effect on muscle blood flow of, in cat (Acheson), **24**: 658
ventilatory depression, effect of methylphenidate on (abstract), **21**: 94
THOMAS, D. M., DICKINSON, G. L., MACKRELL, T. N., and CONNER, E. H., Modification of Copper Kettle (current comment), **24**: 250
——, MACKRELL, T. N., and CONNER E. H., The electroencephalogram during chloroform anesthesia, **22**: 542
THOMAS, D. V., Specialty of anesthesia (current comment), **25**: 873
——, The specialty of anesthesiology. Its growth in the United States since 1940, **25**: 226
THOMAS, E. T., (current comment), **23**: 718
THOMAS, G. B., see MOORE, D. C., jt. auth.
THOMAS, J., see SCHULL, L. G., jt. auth.
THOMAS, J. D. (with ROBBINS, B. H.), Cyclopropane arrhythmias in the cat: their cause, prevention and correction, **21**: 163
THOMAS, L. J., see ROOS, A., jt. auth.
THOMAS, P. A., see MILLER, R. N., jt. auth.
THOMPSON, P. D., and MELMON, K. L., Clinical assessment of autonomic function, **29**: 724
THOMPSON, R., see NEFF, W. B., jt. auth.
THOMPSON, R. C., (current comment), **22**: 853
——, A mouth prop holder for tonsillectomy (current comment), **25**: 569
——, Ether screen with chin holder (current comment), **25**: 571
THOMPSON, W. R., JR., see STEINHAUS, J. E., jt. auth.
Thoracic surgery: see surgery, thoracic
Thoracotomy: see also surgery, thoracic
arterial blood oxygenation during (abstract), **28**: 239
ventilation-perfusion changes during (Virtue & others), **27**: 132
Thorax
properties during anesthesia (Bergman), **30**: 378
THORN, G. W., see CAHILL, G. F., JR., jt. auth.
THORNDIKE, V., see SHNIDER, S. M., jt. auth.
THORNTON, W., see DAVIS, D. A., jt. auth.
Throat
sore, effects on postoperative, of two analgesics and lubricants used with endotracheal tubes (current comment), **26**: 681
Thrombophlebitis
with promethazine (current comment), **21**: 568
THROWER, W. B., see MAHAFFEY, jt. auth.
Thyroid: see also under Endocrine Function; hyperthyroidism
effects on minimum alveolar concentration of cyclopropane (Munson & others), **29**: 1094
effects on minimum alveolar concentration of halothane (Babad & Eger), **29**: 1087
TIERS, F. M., and ARTUSIO, J. F., JR., A quantitative study of *d*-tubocurarine in man during diethyl ether analgesia, **21**: 256
—— (with ARTUSIO, J. F., and others), A clinical evaluation of methoxyflurane in man, **21**: 512
TIESLINK, J., see GOTTLIEB, S. F., jt. auth.
Tigan: see Trimethobenzamide
Tilt
circulatory and respiratory response to tilt with

pentazocine (Win 20, 228), droperidol (R4749), droperidol-fentanyl (Inovar), and methotrimeprazine (abstract), **26**: 253
Time Constants
in anesthesiology (Fink), **27**: 838; (correspondence), **28**: 635, 636, 637
TIMMES, J. J., see GLIEDMAN, M. L., jt. auth.
Tissue
homogenates, solubility of halothane in (abstract), **23**: 153; (Larson & others), **23**: 349
homogenates, solubility of methoxyflurane in (Eger & Shargel), **24**: 625
levels of ether, chloroform, halothane and methoxyflurane in dogs (Chenoweth & others), **23**: 101
Ostwald solubility coefficients for anesthetic gases in (Larson & others), **23**: 686
oxygen "tensions," effects of general anesthetics on (abstract), **24**: 142
water vapor pressure in (laboratory observations) (Ernst & Perez-Zamora), **31**: 272
TITEL, J. H., and EL ETR, A. A., Fibrillation resulting from pacemaker electrodes and electrocautery during surgery (clinical workshop), **29**: 845
——, and LOWE, H. J., Rubber–gas partition coefficients (clinical workshop), **29**: 1215
TODD, D. P., see SLATER, E. M., jt. auth.
TOFANY, V. J., (current comment), **22**: 124
TOFT, R. W., Calibrating device for temperature recording (current comment), **26**: 110
TOKER, P., Delayed postanoxic encephalopathy (current comment), **24**: 398
Tolerance
acute, to thiopental in cerebral oxygen consumption studies (Altenburg & others), **31**: 443
TOLMIE, J. D., JOYCE, T. H., and MITCHELL, G. D., Succinylcholine danger in the burned patient (current comment), **28**: 467
Tongue
blade modification for endotracheal anesthesia (current comment), **25**: 723
modified blade for adenotonsillectomy (current comment), **24**: 590
treatment of laryngospasm by digital elevation of (current comment), **24**: 585
Tonsillectomy: see also Adenotonsillectomy aid during (current comment), **27**: 694
mouth prop holder for (current comment), **25**: 569
Topical Anesthetics: see Anesthetics, topical
TORDA, T. A. G., FOLDES, F. F., BAILEY, R. J., KLONYMUS, D. H., and KUWABARA, S., The interactions of neuromuscular blocking agents in man: The role of hexafluorenium, **28**: 1010
——, and KLONYMUS, D. H., The regional use of muscle relaxants (current comment), **27**: 689
——, see FOLDES, F. F., jt. auth.
Torr (editorial) (Smith), **30**: 125
TORRES, F., see KNUTSON, R. C., jt. auth.
Tourniquet: see also Pneumatic Tourniquet pain (current comment), **25**: 247; 248
SYM (current comment), **25**: 573
TOVELL, R. M. (obituary), **28**: 307
——, R. M., Safety (editorial), **23**: 124
——, and D'AMBRUOSO, D. C., Humidity in inhalational therapy (review), **23**: 452
TOWELL, M. E., see ADAMSONS, K., JR., jt. auth.
TOWNLEY, N. T., see MORROW, D. H., jt. auth.
TOWNSEND, C. H., see MOFFITT, E. A., jt. auth.
Toxic effects of anesthetics, symposium on (report of meeting), **28**: 956
Toxicity: see also under names of specific agents or organs
central nervous systems, of hyperoxia, effect of anesthetic drugs on (abstract), **26**: 250
cytoxic properties of local anesthetics, cultured human respiratory epithelium use in comparison of (Corssen & Allen), **21**: 237
halothane and nitrous oxide (Linde & Bruce), **30**: 363
local anesthetic, modified by oxygen and combination of agents (Daos & others), **23**: 755
oxygen (editorial) (Morgan), **30**: 587
Toxiferine (C-Toxiferine I)
use in production of surgical relaxation (Foldes & others), **22**: 93; (correction), **22**: 854
Tracers: see Radioisotope Tracers
Trachea
endotracheal cuff arrangement to facilitate topical anesthetization (current comment), **25**: 721
endotracheal steroid therapy in acid pulmonary aspiration syndrome (Taylor & Pryse-Davies), **29**: 17
endotracheal tube, pediatric, factors affecting size (clinical workshop), **28**: 779
failure of inflatable cuff resulting in foreign body in (current comment), **27**: 512
fistulas following use of cuffed tracheostomy tubes (clinical workshop), **31**: 281
intrathoracic portion of anesthesia for surgery of (current comment), **26**: 117
length of airway to bifurcation of (Schellinger), **25**: 169
obstruction of nasotracheal tube by impacted nasal secretions (current comment), **23**: 589
spray, modified cannula for (current comment), **25**: 85
trans-endotracheal tube suction in simulated breathing patients (Saklad & Paliotta), **28**: 652
Tracheoesophageal cleft (clinical workshop), **28**: 633
Tracheoesophageal fistula, anesthetic management of surgical repair (clinical workshop), **29**: 1057
Tracheostomy
adapter (current comment), **27**: 323
anesthesiologist's responsibilities in (Crawford), **22**: 86
cannula for speaking during artificial respiration (current comment), **25**: 719
cricothyrotomy compared with (clinical workshop), **28**: 943
modified tube (current comment), **21**: 567
TRACHTENBERG, H. A., see MORRIS, R. H., jt. auth.
Tranquilizers: see also specific compounds
premedication in infants and children utilizing (abstract), **22**: 142

XUM

Transfusion: see also under Blood; Platelet; Plasma Expanders; Dextrans
-associated viral hepatitis (review) (Mosley & Dull), **27**: 409
safe apparatus (review) (Walter & Button), **27**: 439
Transmission: see also under Muscle, Nerve, Synaptic transmission
neuromuscular, and somatic reflexes, effects of anesthetics on (Ngai & others), **26**: 162
synaptic, effects of halothane and nitrous oxide (De Jong & others), **31**: 205
synaptic, facilitation by lidocaine (De Jong & others), **30**: 19
synaptic, functional anatomy of (Koelle), **29**: 643
Transplants: see also under Homotransplantation
cardiac, anesthesia for (Keats & others), **30**: 192
rejection, effects of anesthesia on (clinical workshop), **30**: 235
Transport: see under names of specific agents and compounds
Transurethral Surgery
complication associated with (Marx & Orkin), **23**: 802
Trauma: see also under specific diseases and organs
succinylcholine administration and cardiovascular collapse during (Mazze & others), **31**: 540
TRAURIG, H. H., see BRUCE, D. L., jt. auth.
TRAVERSE, N., see SEGAL, M. S., jt. auth.
Treacher-Collin's Syndrome
anesthetic management in (current comment), **26**: 692
TRENCHAND, D., see EISELE, J. H., jt. auth.
TRENDELENBURG, U. G., The norepinephrine stores and their functional compartments (editorial), **25**: 259
Trichlorethylene
and halothane in a precision system (Dobkin & others), **23**: 58
anesthesia (review) (Atkinson), **21**: 67
anesthesia, hepatic function following (abstract), **25**: 105
effect on central respiratory mechanisms (abstract), **24**: 136
injection of epinephrine during general anesthesia with (Matteo & others), **23**: 360
metabolism (correspondence) (Leibman; Greene), **29**: 1066
respiratory effects (abstract), **26**: 262
"specific" analgesic effect upon trigeminal nerve (Defalque), **22**: 379
TRIFARI, L. M., see PIERCE, J. A., jt. auth.
Trifluoperazine (Stelazine)
antisialogogue effect of (Dobkin & Palko), **21**: 260
Trifluoroethyl Vinyl Ether (Fluoromar)
effect on cerebral metabolism (Ling & Krantz), **21**: 518
flammability in circle absorption system (Gramling & Volpitto), **24**: 194
Trigeminal Nerve
"specific" analgesic effect of trichlorethylene upon (Defalque), **22**: 379
Trigeminal neuralgia
gasserian ganglion block for (review article) (Greenberg & Papper), **31**: 566
Trimethaphan
in treatment of pulmonary edema (clinical workshop), **30**: 101
Trimethaphan Camphorsulfonate (Arfonad)
effect on monkey (Aguilar & Boldrey), **21**: 3
systemic and coronary hemodynamic effects in dog (Rowe & others), **25**: 156
Trimethobenzamide (Tigan)
control of postanesthetic emesis with (current comment), **22**: 492
Trimethylammoniumcaproylcholine
use for maintenance of surgical relaxation (Foldes & others), **25**: 173
TRINER, L., see NAHAS, G. G., jt. auth.
Tris (hydroxymethyl)-Aminomethane: see THAM
Tromethamine (THAM, Talatrol)
systemic and coronary hemodynamics of, in anesthetized dog (Rowe & others), **25**: 317
TROTTA, R., see CHASE, H. F., jt. auth.
TRUDNOWSKI, R. J., see MOSTERT, J. W., jt. auth.
TSUEDA, K., and BIZZARRI, D., Possible atypical silent heterozygotes with extremely low esterase activity (current comment), **27**: 698
Tube: see under Apparatus and equipment
Tubing
vinyl (current comment), **22**: 849
d-Tubocurarine: see also under Muscle Relaxants
analog computor simulation for distribution of (Fleischli & Cohen), **27**: 64
and blood-cerebrospinal fluid barrier (abstract), **24**: 127
(C^{14}-dimethyl-), kinetics of distribution (abstract), **26**: 243
cerebral circulation during (Wollman & others), **26**: 329
dilemma (editorial) (Churchill-Davidson), **26**: 132
duration of action (Walts & Dillon), **29**: 499
effect on respiratory resistance in anesthetized man (Gerbershagen & Bergman), **28**: 981
effects on cerebral circulation during halothane anesthesia (Wollman & others), **25**: 180; (current comment), **25**: 874, 875
effects on neuromuscular and electromyographic studies (Katz & Wolf), **25**: 781
effects on neuromuscular refractory period in anesthetized man (Epstein & others), **31**: 69
effects on neuromuscular transmission during anesthesia (Heisterkamp & others), **30**: 500
effects on oxygen consumption (Muldoon & Theye), **31**: 437
histamine release following intravenous injection of (clinical workshop), **29**: 380
in inhibiting increases in intraocular pressure produced by succinylcholine (Miller & others), **29**: 123
in prolonged anesthesia, overcurarization, and resection of the abdominal wall (current comment), **28**: 231
interaction of halothane with (Katz & Gissen), **28**: 564

intravenous, changes in airway resistance following (Westage & others), **23**: 65
metabolism and elimination (Cohen & others), **28**: 309
neomycin and neuromuscular block and reversal in cats (Stanley & others), **31**: 228
neuromuscular blockade by in children (Long & Bachman), **28**: 723
neuromuscular blocking actions of, effects of hexaflurenium and edrophonium (Katz & others), **26**: 154
neuromuscular effects in man (Katz), **28**: 327
neuromuscular effects of diethyl ether and its interaction with (Katz), **27**: 52
newborns' response to (Walts & Dillon), **31**: 35
plasma levels of, and blood *p*H (Cohen & others), **26**: 727
pyridostigmin as antagonist of (Katz), **28**: 528
quantitative study during diethyl ether analgesia (Tiers & Artusio), **21**: 256
urticaria and angioneurotic edema following (Westgate & others), **22**: 286
use in renal failure (Churchill-Davidson & others), **28**: 540
TULLIS, J. L., and LIONETTI, F. J., Preservation of blood by freezing (review), **27**: 483
TUOHY, G. F., see THEYE, R. A., jt. auth.
TURBIN, J., see BERMAN, R. A., jt. auth.
TURNDORF, H., (with CRAYTHORNE, N. W. BRIAN, and Dripps, R. D.), Changes in pulse rate and rhythm associated with the use of succinylcholine in anesthetized children, **21**: 465
——, see JONES, R. E., jt. auth.
TUTTLE, W. W., and ELLIOTT, H. W., Electrographic and behavioral study of convulsants in the cat, **30**: 48
Twitch
as index of nerve-muscle block (Gissen & Katz), **30**: 481
tension after *d*-tubocurarine (Heisterkamp & others), **30**: 500
Tyrosine
transport, effects of cyclopropane and halothane (Ngai & others), **31**: 53
TYRRELL, M. F., see LEIGH, J. M., jt. auth.

U

UEDA, I., Effects of diethyl ether and halothane on firefly luciferin bioluminescence, **26**: 603
——, FUKUSHIMA, K., BALLINGER, C. M., and LOEHNING, R. W., Epinephrine-induced arrhythmias: effect of carbon dioxide and acid-base changes, **23**: 342
——, LOEHNING, R. W., and CZORNY, V. P.), Effect of phenylephrine on survival and acid-base balance in dogs with acute hemorrhagic hypotension, **21**: 363
——, LOEHNING, R. W., and UEYAMA, H., Relationship between sympathomimetic amines and methylxanthines inducing cardiac arrhythmias, **22**: 926
UEDA, Y., see MUNEYUKI, M., jt. auth.
UEMURA, T., see OYAMA, T., jt. auth.
UEYAMA, H., see UEDA, I., jt. auth.
UIHLEIN, A., see MICHENFELDER, J. D., jt. auth.
ULLRICK, W. C., see GOLDBERG, A. H., jt. auth.
Ultrasonic mists
inhaled, systemic and pulmonary changes with (medical intelligence) (Graff & Benson), **30**: 199
water content of inhaled (correspondence) (Sinopoli; Graff), **31**: 193; 193
Ultrasonic nebulizer: see under Nebulization; Aerosols
UNDERWOOD, P. S., see BOYAN, C. P., jt. auth.
——, see FOLDES, F. F., jt. auth.
——, see GRAVES, C. L., jt. auth.
UNDERWOOD, R. J., and GOWING, D., An electronic method of detecting blood volume changes, **26**: 199
——, GOWING, D., and JOHNSTON, G. I., Effect of changes in blood volume on body impedance, **28**: 426
——, ROTH, J. C., and STARR, A., The influence of anesthetic technique on oxygen consumption during total cardiopulmonary bypass, **21**: 263
——, see GOWING, D., jt. auth.
UNGAR, G., Pharmacologically active peptides (review), **27**: 539
United States Pharmacopeia
and anesthesiologist (editorial), **27**: 115
University Anesthetists, Association of (report of meeting), **28**: 955
Uptake: see also under Anesthesia; names of specific agents and techniques
chloroform in the mouse (Cohen & Hood), **30**:306
URABE, N., see MUNEYUKI, M., jt. auth.
URBACH, K. F. (with LAMOREAUX, L. F.), Incidence and prevention of muscle pain following the administration of succinylcholine, **21**: 394
——, see SEUFFERT, G. W., jt. auth.
——, see SHOUKAS, J. A., jt. auth.
——, see STONER, T. R., JR., jt. auth.
URBAN, B. J., and WEITZNER, S. W., Avoidance of hypoxemia during endotracheal suction (clinical workshop), **31**: 473
Urea
administration during hypothermia, intravascular hemolysis following (case report) (current comment), **25**: 576
administration during hypothermia, osmotic fragility of human red cells caused by (current comment), **27**: 318
effect of, and hyperventilation and hypothermia on circulation and cerebrospinal fluid pressure in dog (Lund & others), **26**: 45
effect on blood pressure and volume (abstract), **21**: 117
effect on circulation and cerebrospinal fluid pressure in dog (Young & others), **24**: 313
effects on intracranial hypertension of hypercapnic acidosis (abstract), **22**: 134
effects on red cells during hypothermia and general anesthesia (abstract), **28**: 265
-induced serum hyperosmolality and central nervous system (Benson & Murphy), **22**: 24
Urethra
transurethral surgery, local hypothermia of

XUM

urinary bladder during (Franks & Cockett), **22**: 15
Urine
extracorporeal circulation and endogenous epinephrine and norepinephrine in, comparison of ether and halothane anesthesia (Anton & others), **25**: 262
Urticaria
following *d*-tubocurarine administration (Westgate & others), **22**: 286
U.S.S.R.
American anesthesiologist in Moscow (Fink), **28**: 764
USUBIAGA, J. E., Effect of local anesthetics on the myoneural junction (correspondence), **26**: 696
——, Neuromuscular effects of beta-adrenergic blockers and their interaction with skeletal muscle relaxants, **29**: 484
——, Potentiation of muscle relaxants by quinidine (correspondence), **29**: 1068
——, MOYA, F., USUBIAGA, L. E., and VESTAL, B., The effect of tetracaine on the liberation of potassium produced by succinylcholine (abstract), **30**: 353
——, WIKINSKI, J., WIKINSKI, R., USUBIAGA, L. E., and PONTREMOLI, M., Transfer of local anesthetics to the subarachnoid space and mechanisms of epidural blocks, **25**: 752
——, see WIKINSKI, R., jt. auth.
USUBIAGA, L. E., see USUBIAGA, J. E., jt. auth.
Uterus
blood flow and placental circulation (review) (Martin), **26**: 447
contractility, effects of drugs on (review) (Friedman), **26**: 409

V

Vagal block
effects of diethyl ether on $Paco_2$ in dogs with (Muallem & others), **30**: 185
Vagolytic Drugs
effect on ventricular arrhythmias during cyclopropane anesthesia (abstract), **26**: 264
Vagus
blockade, effects on respiratory work in hypothermic animal (Hall & Salzano), **21**: 281
VALENTINE, G. W., see KEET, J. E., jt. auth.
VALLBONA, C., see GEDDES, L. A., jt. auth.
Valsalva Maneuver
modified, as test of circulatory integrity under anesthesia (abstract), **26**: 239
Valves: see under Apparatus and Instruments
air, new endotracheal-cuff (current comment), **26**: 112
automatic nonrebreathing, of new design (current comment), **26**: 232
effective, for inflating endotracheal tube cuff (current comment), **26**: 227
exhalational tunnel for nonrebreathing techniques (current comment), **25**: 716
new pop-off (current comment), **25**: 240
new three-way connector with unidirectional valve (current comment), **25**: 717
"pop-off" (current comment), **22**: 848
rebreathing with "nonrebreathing" (current comment), **25**: 854
VAN BERGEN, F. H. (participant–panel discussion), What is the significance of hypercarbia or hypocarbia in the anesthetized patient? **21**: 759
—— (with SCHULTZ, E. A.; BUCKLEY, J. J., and OSWALD, A. J.), Profound acidosis in an anesthetized human: report of a case, **21**: 285
——, see KNUTSON, R. C., jt. auth.
——, see TANASICHUK, M. A., jt. auth.
——, see WESTGATE, H. D., jt. auth.
VAN BRUNT, E. E., and GANONG, W. F., The effects of preanesthetic medication, anesthesia and hypothermia on the endocrine response to injury (review), **24**: 500
VANDAM, L. D., A palliative approach to the new-growth of medical knowledge (editorial), **23**: 576
——, Change without alteration (editorial), **24**: 248
——, College of Physicians and Surgeons Jubilee (editorial), **28**: 295
——, Curare revisited (editorial), **24**: 269
——, Fifth Postgraduate Seminar, Miami Beach, Florida, January 4–7, 1968 (report of meeting), **29**: 855
——, Good news from the Middle East (editorial), **28**: 486
——, Halothane and hepatic necrosis (editorial), **24**: 109
——, Introduction—Symposium—Anesthetics and Endocrine function, **24**: 423
——, More light on Rauwolfia (editorial), **25**: 122
——, Report on methoxyflurane (editorial), **27**: 534
——, Space conflict (editorial), **30**: 1
——, Symposium on the autonomic nervous system. Introduction (editorial), **29**: 621
——, The hydrocarbon-epinephrine disturbance in man (editorial), **23**: 388
——, HARRISON, J. H., MURRAY, J. E., and MERRILL, J. P., Anesthetic aspects of renal homotransplantation in man, **23**: 783
——, and MOORE, F. D., Adrenocortical mechanisms related to anesthesia (Review), **21**: 531
——, see BASTRON, R. D., jt. auth.
——, see DEUTSCH, S., jt. auth.
——, see KUBOTA, Y., jt. auth.
——, see PIERCE, E. C., JR., jt. auth.
——, see ROBERTS, A. P., jt. auth.
——, see SHEPARD, D. A. E., jt. auth.
VAN DER HEEM, P., Preparation of a solid hydrate of halothane (theoretical aspects of narcosis), **27**: 84
VANDERIPE, D. R., and YIM, G. K. W., Local anesthetic activity of partially hydrolyzed solutions of tetracaine hydrochloride, **21**: 26
VAN DER MOLEN, R. A., see ALEXANDER, S. C., jt. auth.
——, see WOLLMAN, H., jt. auth.
VANDERVEEN, J. L., McGOVERN, J. J., BUNKER, J. P., and GOLDSTEIN, R., Effects of anesthesia on hemostatic mechanisms in man, **23**: 92

——, Sneddon, E. A., and Schmidt, S. J., Intramuscular succinylcholine in adults: a controlled study, **24**: 765
Vandewater, S. L., Canadian Anaesthetist's Society (report of meeting), **29**: 217
Vandid: see Vanillic Diethylamid
Van Dyke, R. A., On the fate of chloroform (editorial), **30**: 257
——, and Chenoweth, M. B., Metabolism of volatile anesthetics (review), **26**: 348
Vanillic Diethylamid (Vandid)
effect on arousal and awakening time following thiopental anesthesia (abstract), **21**: 90
Van Poznak, A., (current comment), **23**: 717
——, Electrical anesthesia (review), **24**: 101
——, The effect of inhalation anesthetics on repetitive activity generated at motor nerve endings, **28**: 124
——, Artusio, J. F., and others, A clinical evaluation of methoxyflurane in man, **21**: 512
——, see Middleton, V., jt. auth.
Vaporizers: see also Apparatus and equipment, inhaler; Copper Kettle
anesthesia, calibration by infrared spectroscopy (current comment), **26**: 107
anesthetic with unidirectional valve, prevention of increased pressures in (current comment), **24**: 732
calibration of new (current comment), **25**: 708
clinical, dichlorohexafluorobutene concentration in (Nagel & others), **27**: 673
ether, explosion of (Walter), **27**: 681
"explosion" in (current comment), **27**: 331
flow-metered, convenient flows using (current comment), **26**: 683
for volatile agents (current comment), **22**: 1014
halothane (Ohio), overdose with (current comment), **23**: 715
halothane, residue in (current comment), **24**: 887
halothane, valve and bag assembly for (current comment), **23**: 584
hazard of tipping: cardiac arrest (current comment), **26**: 235
malfunction (current comment), **27**: 324
trichlorethylene in a precision system (Dobkin & others), **23**: 58
Vernitrol, arrangement to prevent pressure effect on (current comment), **24**: 734; 742
Varrone, E. V., see Albert, S. N., jt. auth.
Vascular: see Cardiovascular System; under Veins; Blood, circulation
Vasoactive drugs: see also Drugs, vasoactive
in therapy of intestinal ischemic shock (Hershey & others), **29**: 466
influence on reticuloendothelial phagocytic function in experimental shock (abstract), **27**: 219
Vasoconstrictor
effects (local), epinephrine and PLV-2 (Katz), **26**: 619
Vasodilatation
effect on metabolic and hemodynamic parameters during and after cardiopulmonary bypass (abstract), **28**: 253
effect on metabolic and hemodynamic parameters during and after cardiopulmonary bypass (Glushien & Harris), **28**: 985
Vasomotor
"center" of dog, effects of cyclopropane, halothane and procaine on (Price & others), **26**: 55
Vasomotor Mechanism
central, of dog, effects of cyclopropane on (Markee & others), **27**: 742
Vasopressor: see also specific compounds
administration, skeletal-muscle oxygen tension and metabolism during (Willenkin & Greene), **24**: 168
angiotensin, evaluation (abstract), **22**: 146
drugs, and catecholamines (Zaimis), **29**: 732
drugs, connecting links to solve discrepancies of actions of (editorial), **24**: 763
effect on rate of blood flow through liver measured with P-32 (abstract), **22**: 127
effects on microcirculation and survival in hemorrhagic shock (Hershey & others), **26**: 179
influence of and ganglionic blockade on elimination of water load on histologic appearance of kidney (abstract), **21**: 91
metaraminol in spinal anesthesia (Munchow & others), **21**: 471
therapy, changes in muscle oxygen tension associated with (abstract), **23**: 166
Veins: see also Blood Vessels
central venous pressure via peripheral veins (clinical workshop), **28**: 1093
forearm responses to halothane and cyclopropane (Caffrey & others), **26**: 786
peripheral tone, effect of thiopental on (Eckstein & others), **22**: 525
role in cardiocirculatory dynamics during spinal and epidural anesthesia (Shimosato & Etsten), **30**: 619
unusual complication following cutdown (current comment), **27**: 198
Ventilation: see Respiration
Ventilators: see Respirators, see also under Apparatus and equipment
Ventilometer
simple (current comment), **26**: 113
Ventimeter
adaptation of (current comment), **22**: 123
continuously recording (current comment), **23**: 582
Ventricular Tachycardia
cyclopropane-epinephrine, role of potassium in (Davis & others), **25**: 54
produced by metaraminol during cyclopropane anesthesia in dogs (Siebecker & others), **22**: 555
Vernitrol Vaporizer: see under Vaporizers
Vertes, E., see Schweizer, O., jt. auth.
Vestal, B. L., see Gliedman, M. L., jt. auth.
——, see Modell, J. H., jt. auth.
——, see Nagel, E. L., jt. auth.
——, see Usubiaga, J. E., jt. auth.

XUM

Vestibular system, effect of droperidol and fentanyl (Dowdy & Moore), **30**: 604
VIGUERA, M. G., and TERRY R. N., Induced hypotension for extensive surgery in an infant (current comment), **27**: 701
VILJOEN, J. F., A new double-lumen endobronchial tube connector (clinical workshop), **28**: 950
VILLANDRY, P. J., see AUSTIN, W. H., jt. auth.
VILLARREAL, R., see SCHULL, L. G., jt. auth.
Viral contamination of drug vials in anesthesia machines (clinical workshop), **30**: 465
VIRTUE, R. W., (current comment), **22**: 318
——, Economy (correspondence), **29**: 851
——, ALANIS, J. M., MORI, M., LAFARGUE, R. T., VOGEL, J. H. K., and METCALF, D. R., An anesthetic agent: 2-orthochlorophenyl, 2-methylamino cyclohexanone HCl (CI-581), **28**: 823
——, FUJIMORI, M., The value of oxygenation prior to induced apnea, **21**: 46
——, and LEVINE, D. S., The cost of anesthesia with fluroxene (current comment), **25**: 236
—— (with PEARCY, W. C.), Multichannel electroencephalography in hypothermia and circulatory occlusion, **21**: 35
——, PERMUTT, S., TANAKA, R., PEARCY, C., BANE, H. N., and BROMBERGER-BARNEA, B., Ventilation-perfusion changes during thoracotomy, **27**: 132
——, YOUNG, R. V., LUND, L. O., VOGEL, J. H. K., and GROVER, R. F., Halopropane anesthesia in man. Laboratory and clinical studies, **24**: 217
——, see DAOS, F. G., jt. auth.
——, see LUND, L. O., jt. auth.
——, see TANAKA, R., jt. auth.
——, see YOUNG, R. V., jt. auth.
Viscera
  autonomic innervation and pain (Haugen), **29**: 785
  autonomic innervation in relation to nerve block (Bonica), **29**: 793
  can general anesthetics produce splanchnic hypoxia by reducing regional blood flow? (Price & others), **27**: 24
  circulation during cyclopropane anesthesia (Price & others), **26**: 312
  circulation during halothane anesthesia (abstract), **26**: 246
  splanchnic circulation during halothane anesthesia and hypercapnia (Epstein & others), **27**: 654
Visually Evoked Responses
  effects of preanesthetic and anesthetic drugs on (Domino), **28**: 184
  method for measuring cerebral effects of preanesthetic medication (Corssen & Domino), **25**: 330
VLAZNY, F., see GROSSHANDLER, S., jt. auth.
VOGEL, J. H. K., see VIRTUE, R. W., jt. auth.
VOGEL, J. M., and VOGEL, P., Transfusion of blood components (review), **27**: 363
VOGEL, P., see VOGEL, J. M., jt. auth.
Volatile anesthetics: see Anesthetic agents, volatile
VOLPITTO, P. P., (current comment), **22**: 851
——, (with SMITH, R. H.), Halothane concentrations in clinical anesthesia, **21**: 1
——, see GRAMLING, Z. W., jt. auth.
——, see SHEELEY, L. L., jt. auth.
——, see SMITH, R. H., jt. auth.
Vomiting
  and aspiration during anesthesia (review) (Bannister & Sattilaro), **23**: 251; (current comment), **23**: 718
  and nausea, postoperative (Bellville & others), **21**: 186
  control of postanesthetic emesis with trimethobenzamide (current comment), **22**: 492
  positional control of immediate postanesthetic (current comment), **26**: 359
  postanesthetic (review) (Bellville), **22**: 773
VRINDTEN, P., see BRAND, L., jt. auth.
VULLIEMOZ, Y., see NAHAS, G. G., jt. auth.

W

WAGMAN, I. H., DE JONG, R. H., PRINCE, D. A., Effects of lidocaine on the central nervous system, **28**: 155
——, se DE JONG, R. H., jt. auth.
——, see MUNSON, E. S., jt. auth.
WAHRENBROCK, E. A., see HERSHEY, W. H., jt. auth.
——, see MILLER, R. D., jt. auth.
WAKAI, I., see TASHIRO, M., jt. auth.
WAKASUGI, B., see YAMAMURA, H., jt. auth.
WAKIM, K. G., Bodily reactions to high temperature **25**: 532
WALD, A., and MAZZIA, V. D. B., Fire hazard in the operating room (current comment), **27**: 858
WALKER, J. A., EGGERS, G. W. N., JR., and ALLEN, C. R., Cardiovascular effects of methoxyflurane anesthesia in man, **23**: 6[illegible]
WALKER, T. R. (with BORGMAN, R. L.; PITTINGER, C. B., and LONG, J. P.), Effects of barbiturates on skeletal muscle function, **21**: 150
WALL, P. D., The mechanisms of general anesthesia, **28**: 46
——, Neurophysiological studies on the mechanism of anesthesia (editorial), **28**: 799
WALLENSTEIN, S. L. (with BELLVILLE, J. W., and others), Relative respiratory depressant effects of oxymorphone (Numorphan) and morphine, **21**: 397
WALTER, C. W., Anesthetic explosions: a continuing threat, **25**: 505
——, Explosion of an ether vaporizer (special report), **27**: 681
——, Ventilation and air conditioning as bacteriologic engineering (symposium article), **31**: 186
——, and BUTTON, L. N., Safe transfusion apparatus (review), **27**: 439
——, see KUNDSIN, R. B., jt. auth.
WALTS, L. F., Ventricular tachycardia with gallamine and cyclopropane anesthesia (current comment), **24**: 119

——, and DILLON, J. B., Clinical studies of the interaction between *d*-tubocurarine and succinylcholine, **31**: 39
——, and DILLON, J. B., Clinical studies on succinylcholine chloride, **28**: 372
——, and DILLON, J. B., Durations of action of *d*-tubocurarine and gallamine, **29**: 499
——, and DILLON, J. B., The response of newborns to succinylcholine and *d*-tubocurarine, **31**: 35
——, and INGLOVE, H., Malfunction of a new anesthetic machine (case report) (current comment), **25**: 867
——, KOEPKE, G., and MARGULES, R., Determination of sensory and motor levels after spinal anesthesia with tetracaine, **25**: 634
——, KOEPKE, G. H., ans SWEET, R. B., Use of the electromyograph in the study of ventilation under spinal anesthesia, **23**: 165
——, LEBOWITZ, M., and DILLON, J. B., A means of recording thumb adduction (clinical workshop), **29**: 1054
WAMSER, C. A., and BARSOCCHI, A. T., (current comment), **22**: 1020
WANG, H., EPSTEIN, R. A., MARKEE, S. J., and BARTELSTONE, H. J., The effects of halothane on peripheral and central vasomotor control mechanisms of the dog, **29**: 877
——, see EPSTEIN, R. A., jt. auth.
——, see MARKEE, S., jt. auth.
WANG, J. K., MOFFITT, E. A., and ROSEVEAR, J. W. Oxidative phosphorylation in acute hyperthermia (medical intelligence), **30**: 439
WANG, R. I. H., and ROSS, C. A., Prolonged apnea following succinylcholine in cancer patients receiving AB-132, **24**: 363
WANG, S. C., see MARKEE, S., jt. auth.
WARD, R. J., Porphyria and its relation to anesthesia (medical intelligence), **26**: 212
——, see FREUND, F. G., jt. auth.
——, see KENNEDY, W. F., JR., jt. auth.
WARDEN, J. C., see COOPERMAN, L. H., jt. auth.
——, see PRICE, H. L., jt. auth.
WARNER, W. A., Laryngeal band: Possible relation to prolonged nasotracheal intubation (current comment), **28**: 466
WARRINGTON, H. P., see PRATT, E. L., jt. auth.
WASMUTH, C. E., The causes of malpractice action (legal intelligence), **26**: 659
——, The physician and malpractice suits (editorial), **22**: 1007
——, see MORACA, P. P., jt. auth.
WASSERMAN, K., see DAVIDSON, J. T., jt. auth.
Water
balance during pregnancy (review) (Little), **26**: 400
effects of aspirating in near-drowning (Modell & others), **29**: 456
loss, respiratory, via anesthesia systems, mask breathing (Chase & others), **22**: 205
physiologic effects of near drowning with chlorinated fresh, distilled and isotonic saline (Modell & others), **27**: 33
solubility of diethyl ether in (Eger & others), **24**: 676
vapor pressure in blood and tissues (laboratory observations) (Ernst & Perez-Zamora), **31**: 272
WALTERS, D. J., see MAPLESON, W. W., jt. auth.
WATERS, R. M., biographical data, **28**: 201
WATERS, R. M., Award Lecture, **28**: 201
WATSON, R. L., see FIVEHOUSE, N. R., jt. auth.
WATSON, T. R., JR., see HELLER, M. L., jt. auth.
WAUD, D. R., The nature of "depolarization block" (special article), **29**: 1014
WAUN, J., and STEVENS, W., Respiratory gas studies with ether convulsion (current comment), **25**: 580
——, SWEITZER, R. S., and HAMILTON, W. K., Effect of nitrous oxide on middle ear mechanics and hearing acuity, **28**: 846
WAY, E. L., and SUTHERLAND, V. C., Pharmacologically active brain substances and their relation to endocrine effects (review), **24**: 543
——, see ASLING, J. H., jt. auth.
——, see SHNIDER, S. M., jt. auth.
WAY, W. L., see CHURCHILL-DAVIDSON, H. C., jt. auth.
——, see GREGORY, G. A., jt. auth.
——, see MCALEAVY, J. C., jt. auth.
——, see MILLER, R. D., jt. auth.
WEAVER, D. C., The effects of diazepam (correspondence), **31**: 196
WEBB, S. C., see STEINHAUS, J. E., jt. auth.
WEBB, S. R., see GREENE, N. M., jt. auth.
WEBB, W. R., see SMITH, S. L., jt. auth.
WEEKS, D. B., and BROMAN, K., Lever-arm to prevent accidental extubation of infants in Isolettes (letter to editor, clinical workshop), **29**: 1062
WEIBLEY, T. C., see MODELL, J. H., jt. auth.
WEIGHT, F., see SALMOIRAGHI, G. C., jt. auth.
WEINTRAUB, H. D., see KATZ, R. L., jt. auth.
WEISEL, M. R., see BOUTROS, A. R., jt. auth.
WEISMAN, H., BAUER, R. O., HUDDY, R. A., and DILLON, J. B., Clinical evaluation of a new anesthetic mask (clinical workshop), **30**: 244
WEISS, S. Z., (current comment), **23**: 717
WEITZNER, S. W., MCCOY, G. T., and BINDER, L. S., Effects of morphine, levallorphan, and respiratory gases on increased intracranial pressure, **24**: 291
——, see AMAHA, K., jt. auth.
——, see URBAN, B. J., jt. auth.
WELLS, R. E., JR., Microcirculatory blood flow and the use of dextran, **24**: 828
WESCOTT, D. A., and BENDIXEN, H. H., Neostigmine as a curare antagonist. A clinical study, **23**: 324
WESSLER, S., and GASTON, L. W., Pharmacologic and clinical aspects of heparin therapy (review), **27**: 475
WEBSTER, M. R., see RUSY, B. F., jt. auth.
WESTGATE, H. D., GORDON, J. R., and RYDBERG, J. S., Nasal intubation in mandibular prognathism: postnasal obstruction and management (clinical workshop), **29**: 1059
——, GORDON, J. R., and VAN BERGEN, F. H., Changes in airway resistance following in-

XUM

travenous administered *d*-tubocurarine, **23**: 65
——, SCHULTZ, E. A., and VAN BERGEN, F. H., Urticaria and angioneurotic edema following *d*-tubocurarine administration. Report of a case with observations on blood and plasma histamine levels, **22**: 286
——, and STEIBLER, H. J., Barbiturate abstinence syndrome (current comment), **25**: 403
Wetting agent (Alevaire), effect on pulmonary surfactant (Modell & others), **30**: 164
WHANG, T. B., see COLGAN, E. J., jt. auth.
WHEAT, M. W., JR., see ANTON, A. H., jt. auth.
WHITCHER, C. E., see SCHOENSTADT, D. A., jt. auth.
——, see SMITH, N. T., jt. auth.
WHITE, C. W., JR., An inexpensive device for maintenance of hypothermia (current comment), **25**: 85
WHITE, R. J., see ALBIN, M. S., jt. auth.
——, see SOLOWAY, M., jt. auth.
WICKLIFF, D., see SAKLAD, M., jt. auth.
WIDDICOMBE, J. C., Clinical significance of reflexes from the respiratory system (review), **23**: 434
WIEGAND, O. F. (with BLACKMORE, W. P.; ERWIN, K. W., and LIPSEY, R.), Renal and cardiovascular effects of halothane, **21**: 489
WIGODSKY, H. S., Anesthesiologists—today and tomorrow (Editorial), **21**: 78
WIKINSKI, J., see USUBIAGA, J. E., jt. auth.
——, see WIKINSKI, R., jt. auth.
WIKINSKI, R., USUBIAGO, L. J., USUBIAGO, J. E., and WIKINSKI, M. A., Prevention of succinylcholine fasciculation with local anesthetics, **26**: 3
——, see USUBIAGA, J. E., jt. auth.
WIKLUND, P. E., Design of a recovery room and intensive care unit (special article), **26**: 667
——, Intensive care units: design, location, staffing ancillary areas, equipment (symposium article), **31**: 122
WILGER, R. N., MEYERS, R. A., DUFFY, J. P., and DUNN, A. L., Warning system for piston-type respirator (current comment), **27**: 509
WILKINSON, G. R., see ASLING, J. H., jt. auth.
WILKINSON, H. A., see DE LEMOS, R., jt. auth.
WILLENKIN, R. L., A.S.A. Workshop on Teaching (report of meeting), **28**: 1112
——, and GREENE, N. M., Skeletal-muscle oxygen tension and metabolism during induced hypotension and during vasopressor administration, **24**: 168
WILLIAMS, C. H., DEUTSCH, S., LINDE, H. W., BULLOUGH, J. W., and DRIPPS, R. D., Effects of intravenously administered succinyldicholine on cardiac rate, rhythm, and arterial blood pressure in anesthetized man, **22**: 947
WILLIAMS, G. S., and EASTWOOD, D. W., Blood pressure determination in the newborn with a photosphygmometer, **22**: 237
WILLIAMS, H. D., see MODELL, J. H., jt. auth.
WILLIAMS, J. A., see GRABLE, E., jt. auth.
WILSON, F. M., see TAYLOR, C., jt. auth.
WILSON, J. F., see BONICA, J. J., jt. auth.
——, see DOWNES, J. J., jt. auth.
WILSON, L. A., and HARRISON, G. A., Pulmonary ventilation in children during halothane anesthesia, **25**: 613
WINGARD, D. W., and HUMPHREY, L. J., Depression of antibody production by halothane: a dose response (abstract), **30**: 353
——, see BRUCE, D. L., jt. auth.
WINNIE, A. P., An "immobile needle" for nerve blocks (clinical workshop), **31**: 577
——, Brachial plexus block (correspondence), **31**: 195
——, and COLLINS, V. J., A simple technique for the manual administration of positive-negative pressure ventilation (current comment), **27**: 501
——, and COLLINS, V. J., The subclavian perivascular technique of brachial plexus anesthesia, **25**: 353
WINSEY, S., see FOLKMAN, J., jt. auth.
WINTERS, W. D., CONRAD, A., LENARTZ, H. F., and BLASKOVICS, J. B., Influence of corn oil, heparin and albumin on thiopental action in rats, **23**: 27
——, MORI, K., SPOONER, C. E., and BAUER, R. O., The neurophysiology of anesthesia, **28**: 65
WISE, R. P., Myasthenic syndrome (correspondence), **27**: 872
——, (with CHURCHILL-DAVIDSON, H. C., and CHRISTIE, T. H.), Dual neuromuscular block in man, **21**: 144
——, see CHURCHILL-DAVIDSON, H. C., jt. auth.
Wiskott-Aldrich Syndrome
anesthetic management of (current comment), **27**: 199
WITCHER, C., see EGER, E. I., II, jt. auth.
Withdrawal Syndrome
barbiturate (case report) (current comment), **25**: 403
WITHERSPOON, C. D., see RUSY, B. F., jt. auth.
WITHERSPOON, S. M., see MAHAFFEY, J. E., jt. auth.
——, see STEWART, D. M., jt. auth.
WOLF, C. E., see KATZ, R. L., jt. auth.
WOLF, G. L., see EPSTEIN, R. M., jt. auth.
——, see RACKOW, H., jt. auth.
——, see SALANITRE, E., jt. auth.
WOLFSDORF, J., see DE LEMOS, R., jt. auth.
WOLFSON, B., Appraisal of the Hook and Tucker halothane meter (clinical workshop), **29**: 157
——, High blood levels of methoxyflurane (correspondence), **31**: 194
——, SIKER, E. S., CICCARELLI, H. E., GRAY, G. H., JR., and JONES, L., The electroencephalogram as a monitor of arterial blood levels of methoxyflurane, **28**: 1003
——, see FOLDES, F. F., jt. auth.
——, see SIKER, E. S., jt. auth.
WOLLMAN, H., Halothane and cerebral circulation (current comment), **25**: 875
——, The laboratory in the operating area (symposium article), **31**: 176
——, ALEXANDER, S. C., COHEN, P. J., CHASE, P. E. MELMAN, E., and BEHAR, M. G., Cerebral

circulation of man during halothane anesthesia. Effects of hypocarbia and of *d*-tubocurarine, **25**: 180
——, Alexander, S. C., Cohen, P. J., Smith, T. C., Chase, P. E., and van der Molen, R. A., Cerebral circulation during general anesthesia and hyperventilation in man. Thiopental induction to nitrous oxide and *d*-tubocurarine, **26**: 329
——, and Cannard, T. H., Skeletal muscle, esophageal and rectal temperatures in man during general anesthesia and operation, **21**: 476
——, see Alexander, S. C., jt. auth.
——, see Cohen, P. J., jt. auth.
——, see Ominsky, A. J., jt. auth.
——, see Smith, T. C., jt. auth.
——, see Stephen, G. W., jt. auth.
Wollman, S. B., and Marx, G. F., Acute hydration for prevention of hypotension of spinal anesthesia in parturients (clinical workshop), **29**: 374
——, and Orkin, L. R., Postoperative human reaction time and hypocarbia during anesthesia (abstract), **30**: 354
Woo, S. W., Berlin, A. M., and Hedley-Whyte, J., Comparison of effects of nitrous oxide, chloroform and halothane on surfactant function in excised dogs' lungs (abstract), **30**: 354
Wood, D. W., see Downes, J. J., jt. auth.
Wood Library-Museum in Anesthesiology (Betcher & others), **22**: 618
Woodbury, D. M., and Karler, R., The role of carbon dioxide in the nervous system (Review), **21**: 686
Woods, E. F., see Bagwell, E. E., jt. auth.
——, see Gadsden, R. H., jt. auth.
——, see Stewart, D. M., jt. auth.
Woolmer, R. (participant–panel discussion), What is the significance of hypercarbia or hypocarbia in the anesthetized patient? **21**: 759
Work in progress abstracts, **29**: 170; 850
Workshop on Electrical Hazards in Hospitals (report of meeting) (Bruner), **29**: 1071
Wright, B. D., A new use for the Block-Aid monitor (clinical workshop), **30**: 236
Wright, L. H., (current comment), **22**: 126
Wright Spirometer: see under Spirometer
Wu, W.-H., see Deutsch, S., jt. auth.
——, see Reier, C. E., jt. auth.
Wulfson, N. L., A buccal mask (current comment), **25**: 399
Wurtman, R. J., and Zigmond, M. J., Pharmacologic tools in autonomic nervous system research **29**: 714
Wyamine: see Mephentermine
Wycoff, C. C., Endotracheal intubation: effects on blood pressure and pulse rate, **21**: 153
Wyly, A. J., (current comment), **22**: 494
Wyte, S. R., see Epstein, R. A., jt. auth.

X

Xenon: see also under Anesthesia
and xenon-halothane in study of basic anesthetic mechanisms in man (abstract), **28**: 243
combined with halothane, additive effect (Cullen & others), **31**: 305
effects in dog at elevated pressures (Domino & others), **25**: 43
X-ray: see Roentgenograms
Xylocaine: see Lidocaine

Y

Yamada, M., see Saklad, M., jt. auth.
Yamaguchi, Y., see Suwa, K., jt. auth.
Yamamura, H., Kaito, K., Ikeda, K., Nakajima, M., and Okada, K., The relationship between physiologic shunt and cardiac output in dogs under general anesthesia, **30**: 406
——, Wakasugi, B., Sato, S., and Takebe, Y., Gas chromatographic analysis of inhalation anesthetics in whole blood by an equilibration method (laboratory method), **27**: 311
——, see Suwa, K., jt. auth.
Yeakel, A. E., An anesthesia literature abstracting and retrieval method (ALARM), **25**: 760
——, Capacity of suction tubing (current comment), **25**: 710
——, Gas machine notice (current comment), **24**: 887
——, The teaching of anesthesiology (current comment), **24**: 592
——, and Craythorne, N. W. B., tracheostomy adapter (current comment), **27**: 323
Yim, G. K. W. (with VanDeripe, D. R.), Local anesthetic activity of partially hydrolyzed solutions of tetracaine hydrochloride, **21**: 26
Yokota, T., Hitomi, Y., Ohta, K., and Kosaka, F., Direct injection method for gas chromatographic measurement of inhalation anesthetics in whole blood and tissues, **28**: 1064
Young, J. A., (current comment), **22**: 322
——, see Smith, R. H., Jr., jt. auth.
Young, R. V., Grover, R. F., Lund, L. O., and Virtue, R. W., Effect of hyperventilation, hypothermia, and urea on circulation and cerebrospinal fluid pressure in the dog, **24**: 313
——, see Virtue, R. W., jt. auth.
Young, T. M., Carson, S. A. A., Mezistrano, J., and Morris, L. E., Effects of anesthesia on irradiated animals, **23**: 74

Z

Zaimis, E., Vasopressor drugs and catecholamines, **29**; 732
Zanchetti, A., Brain stem mechanisms of sleep, **28**: 81
Zapata, A., see Paredes, R., jt. auth.
Zapp, J., see Butler, R. A., jt. auth.

ZIAUDER, H. L., see EDELIST, G., jt. auth.
——, see MASSA, L. S., jt. auth.
ZBICK, R., see GOLDBERG, N. B., jt. auth.
ZEFFIRO, R. G., see MARTIN, S. J., jt. auth.
ZEIGER, L., see SMITH, T. C., jt. auth.
ZEMATIS, M. T., see MARX, G. F., jt. auth.
ZIEGLER, T. Q., see BONICA, J. J., jt. auth.
ZIGMOND, M. J., see WURTMAN, R. J., jt. auth.
ZINGANELL, K., see PODLESCH, I., jt. auth.
ZNSSER, H. F., (with CANNARD, T. H., DRIPPS, R. D., and HELWIG, J., JR.), The electrocardiogram during anesthesia and surgery, **21**: 194
ZSIGMOND, E. K., Anesthetic considerations in patients on LSD-25 (letter to editor, clinical workshop), **29**: 384
——, see FOLDES, F. F., jt. auth.
ZUCKER, M. B., and LUNDBERG, A., Platelet transfusions (review), **27**: 385
ZUHDI, N.; MCCOLLOUGH, B.; CAREY, J., and GREER, A. The use of citrated banked blood for open-heart surgery, **21**: 496

UM